

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE <b>1</b> OF <b>2</b>	
2. AMENDMENT/MODIFICATION NO. <b>PS32</b>		3. EFFECTIVE DATE <b>06/11/2018 09:04:00 PM</b>		4. REQUISITION/PURCHASE REQ. NO. <b>21433821</b>		5. PROJECT NO. (If applicable)	
6. ISSUED BY <b>GSA/FEDSIM Acquisition (QF0BBA)</b> <b>1800 F Street, NW, 3100</b> <b>Washington, DC 20405</b> <b>Contract Specialist Name: Tia S Lawrence</b> <b>Contract Specialist Phone: 703-605-2797</b>				7. ADMINISTERED BY (If other than item 6) CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and ZIP Code) <b>CAMBER CORPORATION</b> <b>670 DISCOVERY DR</b> <b>HUNTSVILLE, AL, 35806-2802</b> <b>Phone: (256) 922-3525 Fax: (256) 922-3574</b>				(X)		9A. AMENDMENT OF SOLICITATION NO.	
				X		9B. DATED (SEE ITEM 11)	
						10A. MODIFICATION OF CONTRACT/ORDER NO. <b>GS00Q14OADU109 / GSQ0015AJ0056</b>	
						10B. DATED (SEE ITEM 13) <b>05/29/2015</b>	
CODE		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning ____ copies of the amendment; (b) By acknowledge receipt of this amendment on each of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) <b>285F.Q00FB000.AA10.25.AF151.H08 Total Amount of MOD: (b) (4)</b>							
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.</b> <b>IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).							
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <b>FAR 43.103(b) and FAR 52.232-22 Limitation of Funds</b>							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return ____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) <b>The purpose of this modification is to realign the ceiling and incrementally fund the Task Order. See details on continuation page.</b>							
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <b>Denise VonDibert</b>			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA <b>Denise VonDibert</b>		16C. DATE SIGNED <b>06/11/2018 09:04:00 PM</b>	
(Signature of person authorized to sign)				(Signature of Contracting Officer)			

Line Item Summary							
ITEM NO. (A)	SUPPLIES OR SERVICES (B)	QUANTITY ORDERED (C)	UNIT (D)	UNIT PRICE (E)	Rev. Ext. Price (F)	Prev. Ext. Price (G)	Amount Of Change (H)
0001	Labor (FFP) Task 1 - Provide Project Management (C.4.1)	(b) (4)					
0002	Labor (FFP) Task 5 - Subtask 5.1 & 5.3 (C.4.5.1, C.4.5.3)						
0003	Labor (CPFF Mandatory) - Task 2 - Subtasks: 2.1 and 2.3 (C.4.2.1, C.4.2.3), Task 3 - Subtasks: 3.1, 3.3, 3.5, 3.7, 3.9, 3.11, 3.13, 3.15 and 3.17 (C.4.3.1, C.4.3.3, C.4.3.5, C.4.3.7, C.4.3.9, C.4.3.11, C.4.3.13, C.4.3.15, C.4.3.17), Task 5 - 5.2 (C.4.5.2).						
0004	Labor (CPFF Optional) - Task 2 - Subtasks: 2.2, 2.4 and 2.5 (C.4.2.2, C.4.2.4, C.4.2.5), Task 3 - Subtasks: 3.2, 3.4, 3.6, 3.8, 3.10, 3.12, 3.14, 3.16, and 3.18 (C.4.3.2, C.4.3.3.1.2,C.4.3.4, C.4.3.6, C.4.3.8, C.4.3.10, C.4.3.12, C.4.3.14, C.4.3.16, C.4.3.18), Task 4 (C.4.4).						
0005	Long-Distance Travel Including Indirect Handling Rate						
0006	Equipment & Materials Including Indirect Handling Rate						
0007	Contract Access Fee						
1001	Labor (CPFF) Task 1 Project Management						
1002	Labor (CPFF) - Tasks 2 through 5						
1003	Long-Distance Travel Including Indirect Handling Rate						
1004	Equipment & Materials Including Indirect Handling Rate						
1005	Contract Access Fee						
1006	Other Direct Costs						
2001	Labor (CPFF) Task 1 Project Management						
2002	Labor (CPFF) Task 1 Project Management						
2003	Long-Distance Travel Including Indirect Handling Rate						
2004	Equipment & Materials Including Indirect Handling Rate						
2005	Contract Access Fee						
2006	Other Direct Costs						
3001	Labor (CPFF) Task 1 Project Management						
3002	Labor (CPFF) Task 1 Project Management						
3003	Long-Distance Travel Including Indirect Handling Rate						
3004	Equipment & Materials Including Indirect Handling Rate						
3005	Contract Access Fee						
3006	Other Direct Costs						
TOTALS:					\$78,200,538.73	\$66,124,549.73	\$12,075,989.00

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Task Order Number: GSQ0015AJ0056

OASIS Contract Number: GS00Q14OADU109

Modification PS32

Block 14 Continued:

Purpose of this Modification:

- Realign Ceiling
- Incremental Funding

Modification Summary

## 1. Realign ceiling in the following manner:

- Decrease ceiling for CLIN 1002 by (b) (4)
- Decrease ceiling for CLIN 2002 by (b) (4)
- Decrease ceiling for CLIN 2006 by (b) (4)
- Increase ceiling for CLIN 3002 by (b) (4)
- Increase ceiling for CLIN 3003 by (b) (4)
- Decrease ceiling for CLIN 3004 by (b) (4)
- Increase ceiling for CLIN 3005 by (b) (4)
- Decrease ceiling for CLIN 3006 by (b) (4)
- Increase ceiling for CLIN 4002 by (b) (4)

CLIN#	Ceiling	Increase/Decrease in Ceiling	Revised Ceiling
1002	(b) (4)		
2002			
2006			
3002			
3003			
3004			
3005			
3006			
4002			
<b>Totals</b>	\$ 121,188,764	\$ -	\$ 121,188,764

SF 30 Continuation Page

Task Order Number: GSQ0015AJ0056

OASIS Contract Number: GS00Q14OADU109

Modification PS32

2. Incrementally fund the Task Order by \$6,648 in the following manner:

a. Increase CLIN 2002 (b) (4)

b. Increase CLIN 2005 (b) (4)

CLIN#	Funding	Increase in Funding	Revised Funding
2002	\$ (b) (4)		
2005	\$ (b) (4)		
<b>Totals</b>	\$ 22,705,737	\$ 6,648	\$ 22,712,385

3. Incrementally fund the Task Order by (b) (4) in the following manner.

CLIN#	Funding	Increase in Funding	Revised Funding
3001	(b) (4)		
3002			
3003			
3004			
3005			
3006			
<b>Totals</b>	\$ 21,301,278	\$ 12,069,341	\$ 33,370,619

4. No other changes are being made to the task order at this time.

5. All changes made to the Task Order are annotated by a vertical bar in the margin.

#### SUMMARY OF COST IMPACT OF ABOVE CHANGES

- The Task Order funding is increased by (b) (4)
- The total ceiling remains unchanged at \$138,295,315.



Task Order Number: GSQ0015AJ0056

**Air Force Modeling and Simulation Support Services (AFMS3)**  
in support of:

*Air Force Life Cycle Management Center (AFLCMC)*



**Issued to: Camber Corporation**

**Conducted under FAR 16.505  
OASIS Pool 1 Unrestricted  
GS00Q14OADU109**

**Issued by:  
The Federal Systems Integration and Management Center (FEDSIM)  
1800 F Street, NW  
Suite 3100 (QF0B)  
Washington, D.C. 20405**

**Award Date: May 22, 2015  
MOD PS32: June 2018**

**FEDSIM Project Number AF00685-2016014AF**

## SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

NOTE: The Section numbers in this Task Order (TO) correspond to the Section numbers in the OASIS (One Acquisition Solution for Integrated Services) UNRESTRICTED Contract (POOL 1).

### **B.1 BACKGROUND**

The work shall be performed in accordance with all Sections of this TO and the contractor's Basic Contract, under which the resulting TO will be placed. An acronym listing to support this Task Order Request (TOR) is included in **Section J, Attachment A**.

#### **B.1.5 CONTRACT ACCESS FEE (CAF)**

The General Services Administration's (GSA) operating costs associated with the management and administration of the OASIS contract are recovered through a Contract Access Fee (CAF). The amount of (b) (4) of the total price/cost of contractor performance. The Government will obligate funding to the CAF Contract Line Item Numbers (CLINs), and the contractor shall use the CAF CLINs to collect these fees in accordance with the OASIS contract.

### **B.2 TASK ORDER PRICING**

The contractor shall perform the effort required by this TO on a Firm-Fixed-Price (FFP) basis for CLINs 0001, and 0002; on a Cost-Plus-Fixed-Fee (CPFF) basis for CLINs 0003, 0004, 1001, 1002, 2001, 2002, 3001, 3002, 4001 and 4002; and on a Not-to-Exceed (NTE) basis for CLINs 0005, 1003, 2003, 3003, 4003, and 0006, 1004, 2004, 3004, 4004; and 1006, 2006, 3006, 4006; CAFs shall be provided on a NTE basis for CLINs 0007, 1005, 2005, 3005 and 4005.

Long-distance travel is defined as travel over 50 miles from the contractor employee's duty station. Local travel will not be reimbursed. The following abbreviations are used in this price schedule:

CLIN	Contract Line Item Number
CPFF	Cost-Plus-Fixed-Fee
FFP	Firm-Fixed-Price
NTE	Not-to-Exceed

SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

**B.2.3.1 BASE PERIOD: (1 Year)**

**FFP LABOR (MANDATORY CLINs)**

CLIN	Description	QTY	Unit	Total Firm Fixed Price
0001	Task 1 - Provide Project Management (C.4.1)	(b) (4)		
0002	Task 5 - Subtask 5.1 & 5.3 (C.4.5.1, C.4.5.3)			

**CPFF (TERM) LABOR (MANDATORY CLIN)**

CLIN	Description	Estimated Cost	Fixed Fee	Total Estimated Cost Plus Fixed Fee
0003	Task 2 - Subtasks: 2.1 and 2.3 (C.4.2.1, C.4.2.3)	(b) (4)		
	Task 3 - Subtasks: 3.1, 3.3, 3.5, 3.7, 3.9, 3.11, 3.13, 3.15 and 3.17 (C.4.3.1, C.4.3.3, C.4.3.5, C.4.3.7, C.4.3.9, C.4.3.11, C.4.3.13, C.4.3.15, C.4.3.17)			
	Task 5 - 5.2 (C.4.5.2)			

SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

**CPFF (TERM) LABOR (OPTIONAL CLIN)**

CLIN	Description	Estimated Cost	Fixed Fee	Total Estimated Cost Plus Fixed Fee
0004	<p>Task 2 - Subtasks: 2.2, 2.4 and 2.5 (C.4.2.2, C.4.2.4, C.4.2.5)</p> <p>Task 3 - Subtasks: 3.2, 3.4, 3.6, 3.8, 3.10, 3.12, 3.14, 3.16, and 3.18 (C.4.3.2, C.4.3.3.1.2, C.4.3.4, C.4.3.6, C.4.3.8, C.4.3.10, C.4.3.12, C.4.3.14, C.4.3.16, C.4.3.18)</p> <p>Task 4 - Provide Innovative M&amp;S Services and Capabilities (C.4.4)</p>	(b) (4)		

**COST REIMBURSEMENT TRAVEL AND EQUIPMENT & MATERIALS CLINs**

CLIN	Description		Total Ceiling Price
0005	Long-Distance Travel Including Indirect Handling Rate (b) (4)	NTE	(b) (4)
0006	Equipment & Materials Including Indirect Handling Rate (b) (4)	NTE	(b) (4)

**CONTRACT ACCESS FEE**

CLIN	Description		Total Ceiling Price
0007	Contract Access Fee	NTE	(b) (4)

**TOTAL CEILING BASE PERIOD CLINs:**

(b) (4)

SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

**B.2.3.2 FIRST OPTION PERIOD: (1 Year)**

**CPFF (TERM) LABOR**

CLIN	Description	Estimated Cost	Fixed Fee	Total Estimated Cost Plus Fixed Fee
1001	Task 1 - Provide Project Management	(b) (4)		

**CPFF (TERM) LABOR (OPTIONAL CLIN)**

CLIN	Description	Estimated Cost	Fixed Fee	Total Estimated Cost Plus Fixed Fee
1002	Task 2 – Provide M&S Operational Support (C.4.2)  Task 3 - Provide M&S Technical Support (C.4.3)  Task 4 - Provide Innovative M&S Services and Capabilities (C.4.4)  Task 5 - Provide Ancillary Support Services (C.4.5)	(b) (4)		

**COST REIMBURSEMENT TRAVEL AND EQUIPMENT & MATERIALS and ODC CLINs**

CLIN	Description		Total Ceiling Price
1003	Long-Distance Travel Including Indirect Handling Rate (b) (4)	NTE	(b) (4)
1004	Equipment & Materials Including Indirect Handling Rate (b) (4)	NTE	
1006	Other Direct Costs	NTE	

SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

**CONTRACT ACCESS FEE**

CLIN	Description		Total Ceiling Price
1005	Contract Access Fee	NTE	(b) (4)

**TOTAL CEILING FIRST OPTION PERIOD CLINs:**

(b) (4)

**B.2.3.3 SECOND OPTION PERIOD: (1 Year)**

**CPFF (TERM) LABOR**

CLIN	Description	Estimated Cost	Fixed Fee	Total Estimated Cost Plus Fixed Fee
2001	Task 1 - Provide Project Management (C.4.1)			(b) (4)

**CPFF (TERM) LABOR (OPTIONAL CLIN)**

CLIN	Description	Estimated Cost	Fixed Fee	Total Estimated Cost Plus Fixed Fee
2002	Task 2 – Provide M&S Operational Support (C.4.2)			(b) (4)
	Task 3 - Provide M&S Technical Support (C.4.3)			
	Task 4 - Provide Innovative M&S Services and Capabilities (C.4.4)			
	Task 5 - Provide Ancillary Support Services (C.4.5)			

SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

**COST REIMBURSEMENT TRAVEL AND EQUIPMENT & MATERIALS and ODC CLINs**

CLIN	Description		Total Ceiling Price
2003	Long-Distance Travel Including Indirect Handling Rate (b) (4)	NTE	(b) (4)
2004	Equipment & Materials Including Indirect Handling Rate (b) (4)	NTE	
2006	Other Direct Costs	NTE	

**CONTRACT ACCESS FEE**

CLIN	Description		Total Ceiling Price
2005	Contract Access Fee	NTE	(b) (4)

**TOTAL CEILING SECOND OPTION PERIOD CLINs:**

(b) (4)

SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

**B.2.3.4 THIRD OPTION PERIOD: (1 Year)**

**FFP LABOR**

**CPFF (TERM) LABOR**

CLIN	Description	Estimated Cost	Fixed Fee	Total Estimated Cost Plus Fixed Fee
3001	Task 1 - Provide Project Management (C.4.1)	(b) (4)		

**CPFF (TERM) LABOR (OPTIONAL CLIN)**

CLIN	Description	Estimated Cost	Fixed Fee	Total Estimated Cost Plus Fixed Fee
3002	Task 2 – Provide M&S Operational Support (C.4.2)	(b) (4)		
	Task 3 - Provide M&S Technical Support (C.4.3)			
	Task 4 - Provide Innovative M&S Services and Capabilities (C.4.4)			
	Task 5 - Provide Ancillary Support Services (C.4.5)			

**COST REIMBURSEMENT TRAVEL AND EQUIPMENT & MATERIALS and ODC CLINs**

CLIN	Description		Total Ceiling Price
3003	Long-Distance Travel Including Indirect Handling Rate (b) (4)	NTE	(b) (4)
3004	Equipment & Materials Including Indirect Handling Rate (b) (4)	NTE	
3006	Other Direct Costs	NTE	



SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

**CONTRACT ACCESS FEE**

CLIN	Description		Total Ceiling Price
3005	Contract Access Fee	NTE	(b) (4)

**TOTAL CEILING THIRD OPTION PERIOD CLINs:**

(b) (4)

SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

**B.2.3.5 FOURTH OPTION PERIOD: (1 Year)**

**CPFF (TERM) LABOR**

CLIN	Description	Estimated Cost	Fixed Fee	Total Estimated Cost Plus Fixed Fee
4001	Task 1 - Provide Project Management (C.4.1)	(b) (4)		

**CPFF (TERM) LABOR (OPTIONAL CLIN)**

CLIN	Description	Estimated Cost	Fixed Fee	Total Estimated Cost Plus Fixed Fee
4002	Task 2 – Provide M&S Operational Support (C.4.2)	(b) (4)		
	Task 3 - Provide M&S Technical Support (C.4.3)	(b) (4)		
	Task 4 - Provide Innovative M&S Services and Capabilities (C.4.4)	(b) (4)		
	Task 5 - Provide Ancillary Support Services (C.4.5)			

**COST REIMBURSEMENT TRAVEL AND EQUIPMENT & MATERIALS and ODC CLINs**

CLIN	Description		Total Ceiling Price
4003	Long-Distance Travel Including Indirect Handling Rate (b) (4)	(b) (4)	
4004	Equipment & Materials Including Indirect Handling Rate (b) (4)	(b) (4)	
4006	Other Direct Costs	(b) (4)	

## SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

### **CONTRACT ACCESS FEE**

<b>CLIN</b>	<b>Description</b>		<b>Total Ceiling Price</b>
4005	Contract Access Fee	(b) (4)	

**TOTAL CEILING FOURTH OPTION PERIOD CLINs:**

(b) (4)

**GRAND TOTAL ALL CLINs:**

**\$138,295,315**

### **B.3 ANCILLARY SUPPORT**

The ancillary support to be performed in this TO is defined in **Sections C.4.5 - Provide Ancillary Support Services**.

#### **B.3.5 TRAVEL**

Long-distance travel incurred may be burdened with the contractor's indirect/material handling rate in accordance with the contractor's disclosed accounting practices. If no indirect/material handling rate is allowable in accordance with the Contractor's disclosed practices, no indirect/material handling rate shall be applied to or reimbursed on these costs. If no rate is specified in the schedule of prices above, no indirect rate shall be applied to or reimbursed on these costs.

The indirect handling rate over the term of the TO shall not exceed the rate specified in the schedule of prices above.

#### **B.3.6 MATERIALS AND EQUIPMENT**

Equipment and Materials incurred may be burdened with the contractor's indirect/material handling rate in accordance with the contractor's disclosed accounting practices. If no indirect/material handling rate is allowable in accordance with the Contractor's disclosed practices, no indirect/material handling rate shall be applied to or reimbursed on these costs. If no rate is specified in the schedule of prices above, no indirect rate shall be applied to or reimbursed on these costs.

The indirect handling rate over the term of the TO shall not exceed the rate specified in the schedule of prices above.

### **B.4 OASIS LABOR CATEGORIES**

## SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

Labor categories proposed shall be mapped to existing OASIS labor categories (**see Section J, Attachment AF**). Labor categories proposed for specialized professional services and ancillary support not defined in Section J, Attachment AF shall map to an Office of Management and Budget's (OMB) Service Occupational Classifications (SOC) administered by the Bureau of Labor Statistics (BLS).

### **B.5 INCREMENTAL FUNDING**

#### **B.5.1 INCREMENTAL FUNDING LIMITATION OF GOVERNMENT'S OBLIGATION**

Incremental funding in the amounts below is currently allotted and available for payment by the Government is \$78,200,538. Additional incremental funding for these CLINs will be allotted and available for payment by the Government as the funds become available. The estimated period of performance covered by the allotments for the mandatory CLINs is from award through September 30, 2018, unless otherwise noted in Section B.2. The TO will be modified to add funds incrementally up to the maximum of \$138,295,315 over the performance period of this TO. These allotments constitute the estimated cost for the purpose of Federal Acquisition Regulation (FAR) Clause 52.232-22, Limitation of Funds, which applies to this TO on a CLIN-by-CLIN basis.

When the work required under any CLIN is completed, and that work is within the total estimated cost shown above, the contractor shall be entitled to payment of fixed fee for that CLIN. The contractor may present, with its monthly vouchers for costs, a fee voucher in an amount bearing the same percentage of fixed fee as the certification of incurred costs bears to the total estimated cost for each CLIN. However, after payment of 85 percent of the fixed fee for the total TO, the CO may withhold further payment of fixed fee until a reserve shall have been set aside in an amount which the CO considers necessary to protect the interest of the Government. This reserve shall not exceed 15 percent of the total fixed or \$100,000, whichever is less.

Incremental Funding Chart for CPFF: **See Section J, Attachment B - Incremental Funding Chart (Excel Spreadsheet).**

## C.1 BACKGROUND

The Air Force (AF) Modeling and Simulation (M&S) initiative focuses on simulation as the critical capability for augmenting live resources and processes to support the National Preparedness Cycle (Plan, Organize & Equip, and Train). M&S is seen as an enabler for decision making and enhancing human performance instead of solely relying on the need for expending resources through live capabilities. In today's current environment where funding and resources are limited yet threats to our nation's security still remain requires a higher demand to utilize Live, Virtual & Constructive (LVC) M&S to train, test and equip the nation's preparedness and resiliency. The term "LVC" refers to LVC simulations and supporting infrastructures, models, databases, tools, and services which support the operational training community.

Over the past several years, the AF has experienced an increased demand to provide LVC M&S support services across the AF and Department of Defense (DoD). AF senior leadership has embraced LVC as a critical enabler to readiness. The United States (U.S.) Air Force Warfare Center (AFWC) conducted the "2013 Summer Study" that cited integrating LVC is the only way to train fifth generation weapon platforms to their full capability. In addition, the Headquarters U.S. Air Force (HQ USAF), Deputy Chief of Staff for Operations (HAF/A3) was designated by the Chief of Staff of the Air Force (CSAF) as the lead for centrally managed oversight of cross-Major Command (MAJCOM)/Core Function Lead Integrator (CFLI) LVC efforts.

Live, Virtual, and Constructive Operational Training (LVC-OT) is a fundamental capability that should be at the heart of Air Force training programs supporting operational readiness. AF/A3 is designated the Lead Integrator for LVC-OT and serves as the lead for centrally managed oversight of LVC efforts across Major Commands. Air Force units and personnel need to train in complex tactical, operational and strategic level environments, under all potential threat and weather conditions, emulating potential contingency locations world-wide while integrating with composite, joint and coalition partners. Our airmen must also contend with various and broad ranging operational constraints. The objective of LVC-OT is to optimize the use of technology to provide the highest quality training. It also allows warfighters to replicate the complexity of the modern battlespace while efficiently conducting combat readiness training with local and distant partners. Air, space, and cyberspace forces face a global operational environment marked by significant access restrictions, weather impacts, asymmetric threats, training limitations, and combat capability advances. Current and emerging weapon systems and employment of advanced tactics, techniques, and procedures exceed the capabilities of existing training infrastructure and facilities (ranges, airspace, simulators, etc.), limiting the ability to conduct horizontally and vertically integrated full-spectrum training and mission rehearsal in a Composite/Joint/Coalition Force environment.

The USAF has several organizations that are key stakeholders that are responsible for integrating LVC M&S capabilities to support the Warfighter. The Director of Operations (A3O) at the Pentagon, leads the HAF effort to organize enterprise solutions to build an efficient foundation to achieve readiness through LVC. The A3O collaborates with and provides support to Combatant Command (CCMD) Air Components, MAJCOMs, AF Reserve Command (AFRC), Air National Guard (ANG), Headquarters Air Force (HAF), Direct Reporting Units (DRUs) and Field

## SECTION C -- STATEMENT OF WORK

Operating Agencies (FOAs), its sister Services (United States Navy (USN) and the United States Marine Corps (USMC)), Department of the Army, Office of the Secretary of Defense (OSD), Joint Chiefs of Staff (JCS), and at times with Federal civilian agencies (i.e., Department of Homeland Security (DHS)). **NOTE:** The use of “Joint M&S Community” throughout the TO refers to the AF, DoD, and Federal civilian agencies.

The AF envisions growth in the requirement for LVC M&S support resulting in an expansion of Air Force Modeling Simulation Support Services (AFMS3). This TO will provide support to the Joint M&S community. The Government requires specialized operational, technical, and innovative support to effectively address the highly dynamic and demanding LVC M&S mission.

### **C.1.1 PURPOSE**

The purpose of this TO is to provide specialized M&S/LVC operational, technical, and innovative support services for the Joint M&S Community to assist in the Government’s integration of “Live” training with realistic simulation environments.

### **C.1.2 AGENCY MISSION**

The AFLCMC is the lead organization supported by this TO. This TO also provides support to the Joint M&S Community mainly composed of AF and other DoD organizations, but at times may support other Federal agencies.

#### **C.1.2.1 AIR FORCE LIFE CYCLE MANAGEMENT CENTER (AFLCMC)**

The AFLCMC is one of six centers reporting to the Air Force Materiel Command. Led by a 3-Star General Officer, AFLCMC is charged with life cycle management of Air Force weapon systems from their inception to retirement.

The AFLCMC mission: "Acquire and Support War-Winning Capabilities." The AFLCMC motto: "AFLCMC...Providing the Warfighter's Edge." Adherence to AFLCMC guiding principles enables AFLCMC personnel to meet their goal to "Deliver to Commitments."

- Speed with Discipline
- Trust & Confidence
- Unity of Purpose

AFLCMC provides holistic management of weapon systems across their life cycle and simplifies/consolidates staff functions and processes to curtail redundancy and enhance efficiency. AFLCMC's operating structure provides an integrated framework for decision making and process optimization across the weapon system life cycle.

AFLCMC people work closely with their counterparts at the other five AFMC centers, each with a core mission focus: Air Force Research Laboratory (science & technology); Air Force Test Center (test & evaluation); Air Force Sustainment Center (maintenance, repair, overhaul and supply chain

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management); Air Force Nuclear Weapons Center (strategic systems); and the Air Force Installation and Mission Support Center (installation support).

AFLCMC's portfolio includes: Information Technology systems and networks; Command, Control, Communications, Intelligence, Surveillance and Reconnaissance systems; armaments; strategic systems; aerial platforms; and various specialized or supporting systems such as simulators and personal equipment. AFLCMC also executes sales of aircraft and other defense-related equipment while building security assistance relationships with foreign partner nation air forces. Approximately 26,000 AFLCMC Airmen, civilian and contractor employees perform the center's mission from nine major locations and dozens of smaller sites.

The AFLCMC Commander is responsible for the organize, train and equip functions of the center to include life-cycle management processes and is supported by staff and functional offices. Each Program Office reports to one of 10 Program Executive Officers (PEOs) who are accountable for the activities within their portfolio and who report to the Air Force Service Acquisition Executive at the Pentagon (Assistant Secretary of the Air Force for Acquisition). AFLCMC execution directorates provide direct program support such as engineering, technical order management, developmental planning, contracting, and source selection assistance. The execution directorates include: Program Execution; Technical Engineering Services; Financial Management Mission; Logistics Services; Contract Execution; Cyber & Analysis Programs; Program Development & Integration; and Intelligence. The Air Force Security Assistance and Cooperation Directorate oversees execution of the foreign military sales mission. The Propulsion Directorate oversees engine acquisition and product support.

### **C.1.2.2 SIMULATORS DIVISION**

Under AFLCMC, the PEO for Agile Combat Support (ACS) has been selected as the Air Force PEO for LVC. AFLCMC/WNS (Simulators Division) is the division under PEO/ACS for LVC acquisition program execution.

The Simulators Division overall mission is to lead the development, acquisition, and sustainment efforts necessary to meet every AF Major Command's (MAJCOM) simulation and training requirement. The Simulators Division at Wright-Patterson Air Force Base (WPAFB), Ohio is responsible for end-to-end lifecycle management of AF training systems encompassing complex aircrew, maintenance, and system-specific training systems in support of warfighter training at operating locations worldwide. Simulators Division customers include AF active duty, reserve, and National Guard and Department of Defense (DoD) joint warfighter as well as Foreign Military Sales (FMS). Aircraft platforms supported include: fighter, bomber, cargo/airlift/tanker, unmanned aerial vehicles (UAVs), and special operations that include helicopter platforms. Training system performance parameters are defined by requirements unique to each platform's mission and unique training needs.

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### **C.1.2.3 JOINT M&S COMMUNITY**

The Joint M&S Community primarily consists of the Services and OSD, but may also include other Federal agencies. This TO provides support including, but is not limited to, the following M&S Community organizations:

- a. Air Combat Command (ACC),
- b. Air Education and Training Command (AETC),
- c. Air Force Global Strike Command (AFGSC),
- d. Air Force Material Command (AFMC),
- e. Air Force Space Command (AFSPC),
- f. Air Force Special Operations Command (AFSOC),
- g. Air Force Personnel Center (AFPC),
- h. Air Force Reserve,
- i. Air Mobility Command (AMC),
- j. Air National Guard (ANG),
- k. Office of the Secretary of Defense (OSD)
- l. Headquarters United States Air Force, Air Education and Training Command (HQ/AETC),
- m. Pacific Air Force (PACAF),
- n. United States Africa Command (USAFRICOM),
- o. United States Air Force in Europe (USAFE),
- p. United States Central Command (USCENTCOM),
- q. United States European Command (USEUCOM),
- r. United States Transportation Command (USTRANSCOM),
- s. United States Northern Command (USNORTHCOM),
- t. United States Pacific Command (USPACOM),
- u. United States Southern Command (USSOUTHCOM),
- v. United States Special Operations Command (USSOCOM),
- w. United States Strategic Command (USSTRATCOM); and
- x. Others

### **C.2 SCOPE**

The scope of this TO is to provide the Joint M&S Community with engineering and integration support services to provide highly specialized operational and technical assistance and subject matter expertise to develop, maintain, sustain, and enhance LVC M&S capabilities. This type of support assists the Government in developing and implementing a common standard for interoperability within the LVC M&S domain for efficient and secure global operations while preventing redundancies across M&S Community.

The contractor shall perform work on-site at Government locations and off-site at the Contractor locations as identified in Section C Tasks/Subtasks. If a location is not identified, the contractor shall determine the most appropriate location for the work to be performed. The contractor shall travel routinely to Continental United States (CONUS) and occasionally to Outside the Continental United States (OCONUS) locations, such as Korea and Germany, to support LVC M&S training exercises/events, conferences, and meetings. Conference fees are within the scope of this TO and



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will be reimbursable items. Conference booth fees and/or materials are not within the scope of this TO and will not be a reimbursable item.

### **C.3 REMOVED**

### **C.4 TASKS**

#### **C.4.1 TASK 1 – PROVIDE PROJECT MANAGEMENT**

The contractor shall provide project management support to include the management and oversight of all activities performed by contractor personnel, including subcontractors, to satisfy the requirements identified in this Statement of Work (SOW). The contractor shall identify a Project Manager (PM) by name, to provide management, direction, administration, quality control, financial monitoring, managerial resources, and leadership of the execution of this TO.

The contractor shall facilitate Government and contractor communications; use industry best-standards and proven methodologies to track and document TO requirements and activities to allow for continuous monitoring and evaluation by the Government; and ensure all support and requirements performed are accomplished in accordance with the TO. The contractor shall notify the FEDSIM Contracting Officer Representative (COR) and Technical Point of Contact (TPOC) via a Problem Notification Report (PNR) of any technical, financial, personnel, or general managerial problems encountered throughout the TO period of performance (PoP).

The contractor shall provide strategic enterprise-level guidance that integrates all RFS area support, schedule meetings, ensure support is IAW policies and regulations in Section J, Attachment AB, and provide deliverables in accordance with Section F. A work breakdown structure (WBS) is included in **Section J, Attachment AE**.

##### **C.4.1.1 SUBTASK 1.1 – COORDINATE A PROJECT KICKOFF MEETING**

The contractor shall schedule, coordinate, and host a Project Kick-Off Meeting (**see Section F, Deliverable 1**) at the location approved by the Government. The meeting is an introduction between the contractor personnel and Government personnel who will be involved with the TO. The contractor shall review goals and objectives of this TO; discuss technical and management requirements and security issues; introduce Key Personnel; and discuss transition. In addition, the contractor shall have the opportunity to ask any questions and discuss administrative and/or procedural issues (e.g., invoicing, travel authorizations, and reporting procedures) required to execute this TO. At a minimum, the attendees shall include contractor Key Personnel, AFLCMC leadership and representatives, the TPOC, the FEDSIM COR, and the FEDSIM Contracting Officer (CO). The contractor shall provide a Kick-Off Meeting Agenda and Kick-Off Meeting Presentation (**see Section F, Deliverable 2**) that shall provide, at a minimum, the following type of information:

- a. Introduction of Team Members and Personnel:
  1. Roles and Responsibilities. Include staffing plan and project organization
  2. Overview of the customer organizations

- b. Communication Plan/Lines of communication overview:

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1. Between both the contractor and Government
  2. Customer organizations and M&S Community POCs
- c. TO Management:
1. Overview/outline of the PMP (shows major tasks, milestones, and deliverables; planned and actual start and completion dates for each)
  2. Overview of project tasks
  3. Identified risks and issues and applicable mitigation plans
  4. Overview of In-Coming Transition Plan and Final Transition-in Plan (see Section F, Deliverable 3)
  5. Quality Control Plan (QCP) updated (see Section F, Deliverable 4)
  6. TO logistics
  7. Verify all mandatory and optional tasks to begin at TOA
- d. TO Administration:
1. Review of Government-furnished information and equipment (GFI/GFE)
  2. Invoice review and submission procedures
  3. Travel notification and processes
  4. Security requirements/issues/facility/network access procedures
  5. Sensitivity and protection of information
  6. Reporting requirements, e.g., Monthly Status Report (MSR)
  7. Proposed reports of technical metrics
  8. Request for Service (RFS)
  9. Additional administrative items
- e. Review of Initial Deliverables

The Government will provide the contractor with the number of participants for the Kick-Off Meeting and the contractor shall provide sufficient copies of the presentation for all present. The contractor shall draft and provide a Kick-Off Meeting minutes report in accordance with **Section C.4.1.5.4**, Prepare Meeting Reports, documenting the Kick-Off Meeting discussion and capturing any action items.

The contractor shall provide a tailored kickoff meeting at the start of option year one.

### **C.4.1.2 SUBTASK 1.2 -- PREPARE A PROJECT MANAGEMENT PLAN (PMP)**

The contractor shall prepare and deliver a Draft and Final PMP (see **Section F, Deliverables 5**). The contractor shall utilize the PMP as the foundation for information and resource management planning. The PMP shall contain at a minimum the following:

- a. The Program Organization, Key Personnel, Organization Chart
- b. The Staffing Plan
- c. The Risk Management Plan, that identifies how potential cost, schedule and scope risks will be identified, analyzed, monitored and mitigated.

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- d. An overall Work Breakdown Structure (WBS) for all Contractor tasks and associated responsibilities and partnerships between or among Government organizations as appropriate to the RFS area support.
- e. A Concept of Operations (CONOPs) detailing processes, procedures, communication approach, and other rules of engagement.
- f. Detailed Standard Operating Procedures (SOPs) for all tasks.
- g. General operating procedures for:
  - 1. Invoicing
  - 2. Travel
  - 3. Work hours
  - 4. Leave
  - 5. Deliverables
  - 6. Staff training policies
  - 7. Problem/issue resolution procedures

The contractor shall provide the Government with a draft on which the Government will make comments. The final PMP shall incorporate the Government's comments and redelivered to the Government (**see Section F, Deliverable 5**). The contractor shall keep the PMP current and electronically accessible to the Government at all times.

### **C.4.1.2.1 UPDATE THE PMP**

The PMP is an evolutionary document that shall be updated when significant management or process changes occur on the TO. The PMP shall be updated as changes in the program occur (**Section F, Deliverable 5**). The PMP shall be reviewed and updated as needed on an annual basis, at a minimum, and the contractor shall conform to the latest Government approved version of the PMP. The contractor shall keep the PMP electronically accessible to the Government at all times.

### **C.4.1.3 SUBTASK 1.3 - FACILITATE TRANSITION-IN**

The contractor shall ensure that there will be minimum service disruption to vital Government business and no service degradation during and after transition. The Transition-In period begins at TO start (TOS) and concludes within 30 calendar days. The contractor shall conduct on-boarding activities to include, at a minimum, obtaining appropriate building accesses, Government Contractor identification cards, and system/network user accesses. The contractor shall provide the Government with the Final Transition-In Plan via email and hard-copy at the Kick-Off Meeting (**see Section F, Deliverable 3**).

#### **C.4.1.3.1 IMPLEMENT TRANSITION-IN PLAN**

The contractor shall implement its Transition-In Plan.

### **C.4.1.4 SUBTASK 1.4 - FACILITATE TRANSITION-OUT**

The contractor shall provide Transition-Out support when required. The contractor shall facilitate the accomplishment of a seamless transition from itself to incoming contractor/Government

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personnel at the expiration of the TO. The contractor shall provide a TO Transition-Out Plan (**see Section F, Deliverable 6**). The contractor shall identify how to coordinate with the incoming contractor and/or Government personnel to transfer knowledge regarding the following:

- a. A review, evaluation and transition activity for all contractor-provided support services.
- b. Points of Contact (POCs).
- c. The transition of all collected Service Desk data, including metrics and statistics.
- d. A final update and transfer of the PMP, Service Desk Plan, CONOPs, and Standard Operating Procedures for all tasks.
- e. Complete physical transfer of any Government Furnished Property (GFP).
- f. A validation and final accounting of all licenses and equipment purchased under this TO.
- g. Provide the location of applicable AF debriefs and personnel out-processing.
- h. Relinquish all Government keys, ID/access cards, and security codes.
- i. Project management processes.
- j. Location of technical and project management documentation.
- k. Status of ongoing technical initiatives and training exercises/events.
- l. Appropriate contractor-to-contractor coordination to ensure a seamless transition.
- m. Establish and maintain effective communication with the incoming contractor/Government personnel for the period of the transition via weekly status meetings.
- n. Actions required of the Government.
- o. An estimated final invoice and close-out schedule with the dates and actions to be completed for TO close-out.

The contractor shall also establish and maintain effective communication with the incoming contractor/Government personnel for the period of the transition via weekly status meetings (**see Section C.4.1.6.1**).

### **C.4.1.4.1 IMPLEMENT TASK ORDER TRANSITION-OUT**

Prior to the expiration of the TO, the contractor shall implement the TO Transition-Out Plan.

### **C.4.1.5 SUBTASK 1.5 – PREPARE MANAGEMENT REPORTS**

The contractor shall prepare the management reports detailed below. The contractor shall provide the reports at a minimum to the FEDSIM COR and TPOC via electronic copy.

#### **C.4.1.5.1 PROVIDE MONTHLY STATUS REPORTING (MSR)**

The contractor shall develop and provide a Monthly Status Report (MSR) (**Section F, Deliverable 7**). The MSR shall briefly summarize, by RFS, the management and technical progress to date, as well as provide the current information indicated below. The contractor shall provide, at a minimum, the following information:

- a. Activities during the reporting period, by RFS (brief description of the RFS, general description of progress with a focus on the steps and progress to achieve final deliverables.

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- b. Problems and corrective actions taken (As applicable). Also include issues or concerns that may affect project deliverables, personnel, and cost resources and proposed resolutions to address them to include risk mitigation plans as required.
- c. Personnel gains, losses, and staffing status of Key and non-Key Personnel (security clearance, upcoming leave status, etc.) as required.
- d. Concerns, issues, delays, risks, and resolutions of identified problems or concerns as required.
- e. Financial status including (for CLIN 1):
  - 1. Actual TO burn through the current month, and projected cost of each contracting line item number (CLIN) with detail down to the RFS to the funding document level.
  - 2. Up-to-date spend plan including baseline, actuals, and forecast.
  - 3. Chart reflecting funding and burn rate for the month and cumulative.
  - 4. Cumulative invoiced amounts for each CLIN and labor tasks totals to-date.
- f. Current cumulative total obligation against contract ceiling
- g. Summary of trips taken and projected travel for the next three months, to include traveler's name, trip description, location, and estimate of trip.
- h. Financial status chart by RFS, including:
  - 1. Planned a spend plan for month
  - 2. Actual spending (burn) for month
  - 3. Cumulative spend plan
  - 4. Cumulative spending (burn)
  - 5. Depict current funding and ceiling
- i. Government actions required (deliverables awaiting Government approval, etc.).
- j. Recommendations for change, modifications, or improvements in task or process.
- k. Action Items (including those reported since last MSR in other deliverables)

The MSR shall be prepared in accordance with the sample provided in **Section J, Attachment D**.

### **C.4.1.5.2 PROVIDE TRIP REPORTS**

The Government will identify the need for a Trip Report (**Section F, Deliverable 8**) when the request for travel is submitted. The contractor shall keep a summary of all long-distance travel including, but not limited to, the name of the employee, Government approval authority, location of travel, duration of trip, total cost of the trip, and points of contact (POCs) at the travel location. Trip reports shall also contain, at a minimum, a detailed description of the purpose of the trip and any knowledge gained. At a minimum, trip reports shall be prepared with the information provided in **Section J, Attachment E**.

The contractor shall keep a historical summary/spreadsheet of all long-distance travel, to include, at a minimum, the name of the employee, location of travel, duration of trip, and trip estimate (**Section F, Deliverable 40**). Trip reports shall at minimum be prepared with the information in the sample provided in **Section J, Attachment E**.

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### **C.4.1.5.3 PROVIDE PROBLEM NOTIFICATION REPORTS (PNRs)**

The contractor shall notify the FEDSIM COR via a PNR see **(Section J, Attachment F)** as soon as it becomes apparent to the contractor, that a scheduled delivery will be late or a cost overrun will occur. The contractor shall include in the PNR the rationale for a late delivery or cost overrun, the expected mitigation strategy, and overall project impact. The FEDSIM COR will review the PNR and provide guidance to the contractor. Such notification in no way limits any Government contractual rights or remedies including, but not limited to, termination. PNRs shall at minimum be prepared with the information in the sample provided in **Section J, Attachment F**.

### **C.4.1.5.4 PROVIDE MEETING REPORTS**

The contractor shall submit Meeting Reports **(see Section F, Deliverable 9)**, when requested (i.e., by email) from the RFS Customer, TPOC and/or FEDSIM COR, to document results of meetings. The Meeting Report shall include the following information:

- a. Meeting attendees and their contact information – at a minimum, identify organizations represented
- b. Meeting dates
- c. Meeting location
- d. Meeting agenda
- e. Purpose of meeting
- f. Summary of significant discussion(s)/decision(s)(issues and risks discussed and decisions made, and action items assigned)
- g. Action items assigned

### **C.4.1.6 SUBTASKS 1.6 – CONDUCT PROJECT MANAGEMENT MEETINGS**

The contractor shall be required to participate, facilitate, and conduct regular RFS-based project management meetings for each RFS customer. The recurring schedule of these meetings will be specified by the RFS customer and should occur no less than quarterly. The contractor shall provide the appropriate representation for all meetings. If the Government combines more than one project management meeting (e.g., monthly status meeting and project management review (PMR)), the contractor shall provide only one meeting report **(see Section F, Deliverable 9)**.

#### **C.4.1.6.1 CONDUCT TELECONFERENCES**

The contractor shall conduct teleconferences **(see Section F, Deliverable 11)** upon request by the FEDSIM COR and TPOC to provide overall project status and identify any critical issues. The contractor shall document issues, risks, and action items identified during the teleconference meeting and provide the FEDSIM COR and TPOC with a meeting report **(see Section F, Deliverable 9)**.

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### **C.4.1.6.2 CONVENE PROJECT MANAGEMENT REVIEWS (PMR)**

The contractor shall facilitate quarterly, in-person PMRs (**see Section F, Deliverable 13**) to provide an executive-level overview of cost, schedule and performance. The PMR shall provide a forum for Government review of progress, planning, and issues related to the TO. The contractor shall utilize the PMP in its discussion of TO performance. PMRs shall include schedule by RFS, previous month's activities by RFS, planned activities for next month by RFS, and issues/actions required by the Government. In addition, the contractor shall provide the Government with any program-level risks to successful completion. The contractor shall document and email a meeting report in accordance with **Section C.4.1.5.4, Prepare Meeting Reports**, to PMR participants, documenting issues, risks, and action items identified during the meeting (**see Section F, Deliverable 9**).

The agenda for the quarterly PMR shall be as follows:

- a. The quarterly PMR shall be combined with the monthly status meeting slides for the last month of the quarter.
- b. Monthly Quad Charts by RFS
- c. Discussion any process change recommendations

### **C.4.1.6.3 CONVENE AD-HOC STATUS MEETINGS**

The contractor shall convene ad-hoc status meetings with the TPOC, FEDSIM COR, and other Government stakeholders. The purpose is to ensure all stakeholders are kept well informed as exercises/events transpire, provide opportunities to identify other activities and establish priorities, and coordinate resolution of identified problems or opportunities. The contractor shall provide a meeting report (**see Section F, Deliverable 9**) documenting meeting attendance, issues discussed, decisions made, and action items assigned, to the FEDSIM COR.

### **C.4.1.6.4 UPDATE QUALITY CONTROL PLAN (QCP)**

The contractor shall periodically update the QCP, as required in **Section F, Deliverable 4**, as changes in program processes occur. At minimum, the QCP shall be reviewed and updated once a year.

The QCP shall contain the elements required in the solicitation. These elements are:

- a. Performance Monitoring Methods, including a draft sample customer survey to individual M&S customers on the assessment of contractor performance.
- b. Performance Measures
- c. Approach to ensure that cost, performance, and schedule comply with RFS planning.
- d. Methodology for continuous improvement of processes and procedures, including the identification of service metrics that can be tracked in the TO.
- e. Government Roles
- f. Contractor Roles

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### **C.4.1.6.5 ENTERPRISE WIDE CONTRACTOR MANPOWER REPORTING APPLICATION**

The contractor shall report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for this task order via a secure data collection site. The contractor is required to completely fill in all required data fields using the following web address: <http://www.ecmra.mil/>. Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year.

### **C.4.2 TASK 2 -- PROVIDE M&S OPERATIONAL SUPPORT (OPTIONAL)**

The AF M&S operational services encompasses exercise/event support services and M&S field site advisory support. These M&S operational services provide advisory support throughout the entire exercise/event life cycle and assist in ensuring both warfighting doctrine and Tactics, Techniques and Procedures (TTPs) are addressed adequately in a scenario and are verified and validated to support the objectives of the exercise/event. These services support exercises/events for the entire M&S Community. The contractor shall provide the Joint M&S community with M&S exercise/event support and field site advisory support. The contractor shall support the selected exercises/events by observing, identifying, and reporting problems and issues that may arise.

#### **C.4.2.1 SUBTASK 2.1 - PROVIDE OPERATIONAL SUPPORT TO M&S EXERCISES/EVENTS**

The Joint M&S community has a need for exercise/event support and executive oversight management of constructive simulation systems for numerous traditional training exercises/events as well as current/future mission rehearsals on an annual basis. Constructive Simulation Systems replace live personnel in live exercises/events with synthetic personnel in a synthetic environment to provide a realistic training environment with varying levels of fidelity. M&S exercise/event support includes operating and integrating LVC models and simulations in support of planning and execution of AF, Joint, Interagency and Coalition exercises/events and mission rehearsals to train Government personnel and command staffs in the full spectrum of operations. M&S exercise/event activities include, Warfighting Exercises Tests, Experiments, CONOPS Exploration, Planning Conferences, Configuration Meetings, and similar events that support Warfighter Operational and Technical training. All of these exercises/events support a process that provides Government personnel the necessary preparation to deploy, test and execute critical missions CONUS and OCONUS. The contractor shall advise and assist the Government in providing support to M&S exercises/events in the planning and execution of AF, Joint, and other Services LVC training, computer-assisted exercises/events, experiments, related exercises/events, and the overall operation of selected constructive simulations. Support to this RFS area includes routine and extended travel to numerous CONUS and OCONUS locations on a continual basis throughout the TO PoP.



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The contractor shall provide specialized technical and operational subject matter expertise to support the planning and execution activities for selected M&S exercises/events to include LVC exercises/events, computer-assisted demonstrations, exercises/events, experiments, tests, mission rehearsals, evaluations, evaluation activities, and the utilization of constructive simulation capabilities. Planning conferences and meetings will primarily be held in the theater supported. The Government will identify when the contractor shall be required to attend and provide subject matter expertise on missions and capabilities. Even though the exercises/events will vary from year to year, Section J, Attachment H provides a historical representative sampling of the exercises/events and off-site contractor supported requirements. The schedule depends on the taskings of AF MAJCOMS, Joint National Training Capability (JNTC), Combatant Commands (CCMDs), Sister Services, and other outside agencies.

### **C.4.2.1.1 PROVIDE PRE-EXECUTION PLANNING CONFERENCES AND M&S EXERCISE/EVENT EXECUTION SUPPORT**

As determined by the Government, the contractor shall support a series of pre-execution planning conferences for each LVC exercise/event within the hosting MAJCOM. The contractor shall support the Government by providing technical subject matter expertise on the use of the model or simulation, providing operational subject matter expertise on the particular theater environment, providing coordination and support between the users and the developers; and identifying required capabilities to be incorporated into future model development. Each identified M&S exercise/event has a requisite number of training-related preparation exercises/events associated with it, and each exercise/event varies in the amount of support required. For example, Austere Challenge (AC), an annual USAF Europe (USAFE) exercise/event, and Unified Endeavor (UE), a semi-annual Army exercises/event broken up into different components, are two typical exercises/events that the Government supports.

While determination of which conferences the contractor will attend will vary from exercise/event to exercise/event, for informational purposes, the following are typical planning conferences and contractor responsibilities associated with an exercise/event:

- a. Concept Development Conference (CDC): The purpose of the CDC is to layout the baseline for the exercise/event and determine training objectives (e.g., Joint/AF/COCOM) to be exercised and accomplished by the training audience during the exercise/event. The contractor shall participate in this conference by providing operational and technical subject matter expertise on AF Warfighter Training models or simulations (e.g., Air Warfare Simulation (AWSIM)), their current capabilities (which continually evolve), the capabilities of the personnel who operate the model(s), how they relate to the other AF models or simulations and to the other Service and Joint models/simulations, and what they can provide to the Exercise Operations personnel for the Warfighter Training. The contractor shall assist the Operations Exercise personnel (users) in identifying the desired outcome of the exercise/event (what the users want to accomplish), taking that information and interpreting what they will need the model(s)/simulations, equipment, and personnel (resources) to provide (the desired outcome) in the best manner possible. The contractor shall partake in the discussion among the user community on the overall LVC simulation requirements, schedule, funding, architecture, and locations required to accomplish the identified exercise/event objectives. The contractor shall support the development of

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interoperable, realistic, and appropriate representation of strategic, operational, and tactical M&S of air, missile, space, and cyber forces that support training, exercises/events, and mission rehearsal.

- b. Initial Planning Conference (IPC): During the IPC, M&S and LVC requirements in support of the exercise/event are outlined. The contractor shall participate in the IPC as part of the model/simulation selection process listening and understanding the desired/requested exercise/event outcomes and provide input to ideas, solutions, and alternatives that will best serve the outcome of the exercise/event regarding equipment, personnel and other required resources. If a federation (e.g., Joint Live Virtual and Constructive (JLVC), Joint Land Component Constructive Training Capability (JLCCTC)) is chosen that includes the AF simulation model(s)/simulation, the contractor shall assist in identifying what level of equipment and personnel support may be required. A federation is a series of simulations put together in a tested configuration for a specific duration. The contractor shall capture the exercise/event data during the IPC in a Trip Report (**see Section F, Deliverable 8**) for analysis to determine integration and execution requirements.

Government participation in this process is critical to ensuring that the appropriate resources are allocated to support the forthcoming exercises/events. The contractor shall provide input on the general availability of personnel and equipment for requested exercises/events and subject matter expertise on how to translate the technical capabilities (both singularly and in a federation) into language and capabilities that Operations personnel (who run these exercises/events) understand. The contractor shall assist the Government in the coordination of exercise/event resources (e.g., range coordination and selection of automated tools) and LVC support for NAF, AF Agencies, AF Units, and other organizations during exercises/events, training, and other LVC simulation activities. The contractor shall participate in this process and ensure resources are appropriately allocated to efficiently and effectively support each exercise/event. This will be accomplished by obtaining the Government determination of the degree and level of support necessary to achieve stated objectives.

The contractor shall track the operational requirements in support of upcoming selected LVC exercises/events. Based on the established list of models/equipment to support an exercise/event, the contractor shall assist in the analysis, development and integration of AF LVC requirements into exercise/event planning sessions, system and load tests, and spirals. The contractor shall assist in the preparation for the tests and/or support the tests (JLVC and JLCCTC Integration Events (IEs) and Validation Events (VEs)). The contractor shall provide daily Situation Reports (SITREPS) to the TPOC and FEDSIM COR during all phases of the planning exercises/events (**see Section F, Deliverable 15**) on the status of the requirements so that the Government can then prioritize, fund, and assign the requirements.

- c. Mid-Term Planning Conference (MPC): The contractor shall participate in the MPC by providing technical inputs regarding simulation capabilities, resources issues, Cross Domain Solutions (CDS), and impact of other Service LVC architectures to ensure the AF simulation to stimulation threads are correctly represented. The contractor shall ensure the

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Command, Control, Communications, Computers, and Intelligence (C4I) syndicates are aware of the requirements necessary to support the simulation architecture. The contractor shall be aware of the C4I and communications support issues relating to other agencies and equipment; and work to resolve any related issues that have a direct bearing on the Joint M&S community organizations capability to support the given exercise/event.

The Government responsible for providing input into the LVC M&S portion of the Joint Manning Document (JMD), which is designed to identify every position associated with each exercise/event. The contractor shall provide this information to the Exercise Planners to support the creation of the JMD focused primarily on M&S personnel information and obtained from many sources. The contractor shall identify, update, and provide input to the JMD associated with each exercise/event.

- d. Final Conference (FPC): The FPC is the resolution planning conference where final exercise/event decisions are made, who will participate, duration, specific simulations and equipment, what changes have been made to the models/simulations, and what their expected capabilities will be during the exercise/event. The contractor shall participate in the FPC to address and close any LVC, personnel, equipment, and communication issues or suspenses identified during the IPC and MPC. The contractor shall assist in resolving any problems, provide inputs, suggest solutions based on previous experiences, and provide inputs towards workarounds for any problems that cannot be solved outright. All exercises/events unresolved problems must be resolved by the FPC.

The Joint Exercise Life Cycle (JELC), as described above, is the formal planning process by which all exercises/events for Joint training are developed. A rigorous timeline is followed by all branches of the U.S. military, including Joint Forces, AF, and COCOMS. When engaged with a DoD related exercise/event, the contractor shall provide support to the JELC process as identified by the Government.

During the Execution Phase, the contractor shall be required to monitor and report on the progress of the simulation(s) to ensure the simulated training exercises/events provide a realistic presentation for the intended audience. The contractor shall provide daily SITREPS to the TPOC and FEDSIM COR (**see Section F, Deliverable 15**). The contractor shall immediately relay any identified questions regarding the AF model to the TPOC in order to coordinate a response with the model managers on issues as well as capture any action items. The contractor shall solicit, collect, and identify user requirements and report those issues/needs/requirements from the user to the Government and track in order to make the necessary changes and facilitate integration into the model.

The contractor shall support the Government during trade shows (Air Force Association (AFA) and Interservice/Industry Training, Simulation, and Education Conference (IITSEC) are the two primary trade shows supported) providing subject matter expertise to describe how M&S/LVC can assist the AF, DoD, and other Federal Agencies.

### **C.4.2.1.2 M&S EXERCISE/EVENT TESTING**

In addition to the planning conferences, at times the contractor shall support the Government by participating in the testing phases to ensure the specified federation in support of the exercise/event

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is stable utilizing specific simulation models/simulations designed to train the intended trainee. An example of a typical testing phase and required support includes the following:

Exercise/event tests JLVC and JLCCTC Integration Events (IEs) and Validation Events (VEs) involves the testing of the database associated with each model/simulation. As identified by the Government, the contractor shall provide subject matter expertise during exercise/event testing on specific model/simulation capabilities, knowledge of model modifications, operational databases, and required modifications. The contractor shall support M&S desktop(s) (typically three major air models used in training), local environment generation servers, and first person shooter devices during exercise/event tests. The contractor shall install, configure, and test these M&S systems for the exercise/event while monitoring and tracking all client M&S systems. The contractor shall identify model/simulation deficiencies, ensure what is being seen is realistic, and if the output is not correct, the contractor shall suggest corrective actions to the Government. If a software deficiency is identified, the contractor shall ensure the identified deficiencies are forwarded to the Government for correction. The contractor shall identify and generate a complete list of problems, issues, deficiencies, and workarounds for each exercise/event and track and follow-up on their status until resolution. The contractor shall assist the Government in resolving each issue no later than (NLT) the MPC or at least prior to the start time of the exercise/event (STARTEX). The contractor shall provide a model deficiency report identifying critical action items to the Government **(see Section F, Deliverable 16)**.

### **C.4.2.1.3 PROVIDE VERIFICATION, VALIDATION, AND ACCREDITATION (VV&A) M&S EXERCISE/EVENT TESTING SUPPORT**

The contractor shall support verification, validation, and accreditation (VV&A) process requirements for the AF, other Services and Joint Federations. The contractor shall help to ensure simulations are interoperable and support training exercise/event federations. As identified by the Government, the contractor shall be required to participate in a review of the products being tested and report on their accuracy, completeness, and realism. Using an AF example, a VV&A testing phase and required support includes the following:

Verification of interoperability between simulations and C4I systems and resulting output are delivered to appropriate systems in the correct format. The contractor shall assist in ensuring all products are delivered and/or handled in the correct sequence and flow, as defined during the prior planning exercises/events, and/or in accordance with (IAW) specific desired actions. The contractor shall be present to ensure that the model/simulation identified deficiencies are true “model or simulation deficiencies” and not the result of improper performance of models outside of the AF suite of models, AF influence. The contractor shall provide a model deficiency report identify action items and critical actions and inputs to resolve emergencies that have just occurred **(see Section F, Deliverable 16)**.

The contractor shall assist in ensuring M&S representation for training, exercise/event, and mission rehearsal are consistent with the military service doctrine, DoD directives, and Federal guidelines. With respect to AF activities, the contractor shall ensure M&S representation is consistent with authoritative guidance in facilitating military service participation in exercises/events, and DoD regulations, Air and Space Operations Center (AOC) operations, specific exercise/event directives (many of which are classified), and others involving C4I,

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communications, security, and accreditation. The contractor shall assist in the analysis, development and integration of AF M&S requirements into an exercise/event collection matrix utilized to capture, from the user community LVC requirements. These requirements will then be used to assist in the future LVC development.

### **C.4.2.1.4 PROVIDE M&S EXERCISE/EVENT RESULTS SUPPORT**

The contractor shall prepare, document, and maintain After Action Reports (AARs) for each exercise/event (**see Section F, Deliverable 17**). The AAR shall assist the Government in identifying and determining what exercise/events were of a significant magnitude or were error prone so that a permanent report needs to be established so that future personnel can benefit from the lessons learned. The Joint Uniform Lessons Learned System (JULLS) is a knowledge management process that compiles these AAR reports into a central secure location that is available to all future Warfighters. The contractor shall provide lessons learned input from the AARs to the JULLS. The JULLS is managed by the COCOM and not the responsibility of the contractor. The contractor shall monitor the simulation effect of the C4I system information is accurately represented in a timely and correct format.

Following the execution of each exercise/event, the contractor shall identify any lessons learned to facilitate improvement to exercise/event development and management. The contractor shall conduct a post exercise/event assessment to identify improvements for future exercises/events. The assessment shall include providing lessons learned and recommendations for future events (**Section F, Deliverable 18**).

### **C.4.2.2 SUBTASK 2.2 - PROVIDE OPERATIONAL SUPPORT TO M&S EXERCISES/EVENTS FOR THE USAF/JOINT M&S COMMUNITY (OPTIONAL)**

As the Government moves away from “Live” training and integrates to realistic simulation environments, additional M&S exercise/event advisory subject matter expertise may be required at Government field locations. This support shall provide the Joint M&S community with additional M&S exercise/event support.. The Government anticipates support to M&S exercises/events to grow over the five-year TO PoP . Exercise/event growth in support of the Government will be detailed in a RFS. Support to this subtask may require contractor personnel to possess Top Secret (TS) clearance with Sensitive Compartmented Information (SCI) eligibility.

### **C.4.2.3 SUBTASK 2.3 - PROVIDE FIELD SITE ADVISORY SUPPORT**

The contractor shall provide field site advisory support. Field site advisory support is categorized into two different functional areas described below:

#### **a. LVC Training Field Support**

1. LVC field support provides direct support to the M&S training community on-site at designated field locations. The contractor shall provide LVC simulation expertise for all supported missions.

#### **b. M&S Support (Other M&S Functional Areas) (OPTIONAL)**

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1. M&S support provides direct support to on- or off-site in support of all other M&S functional areas (e.g., acquisition, analysis, test & evaluation, wargaming) (other than training), and focuses on the infusion of LVC capabilities. Support to this subtask may require contractor personnel to possess a TS with SCI eligibility clearance.

The contractor shall perform the following field site advisory support functions:

- a. The contractor shall assist in developing analytical plans to identify goals and objectives; collect stakeholder inputs and solicit stakeholder support; threat identification; and suggest a variety of M&S/LVC tools and methodologies to support planning and execution activities. The contractor shall work with the Government to identify and coordinate exercise/event resources, collect exercise/event data, and provide analysis of exercise/event outcomes. The contractor shall provide input to the Government to track, assess, and report M&S/LVC simulation-related activities, initiatives, or other related efforts to minimize duplicative technologies being developed or conducted across the DoD. The contractor shall provide written daily SITREPS during any ongoing significant exercise/event providing status on progress, issues, and prognosis of tasks being accomplished or forecasted in the future (**see Section F, Deliverable 15**).
- b. The contractor shall develop and provide papers (e.g., information, point, white, bullet background, and decision papers), AARs, and meeting reports discussing the results, findings, recommendations, impact of ad hoc meeting decision outcomes (**see Section F, Deliverables 9, 17, and 19**) and provide input on possible courses of action to implement and/or mitigate changes that result from these decisions.
- c. The contractor shall provide support on M&S matters to ensure the Joint M&S community gains efficiencies and effectiveness through M&S/LVC simulation capabilities and integrate the field units respectively.
- d. The contractor shall provide representation support at the planning and execution of a Government-selected exercise/event as the subject matter expert on the particular theater exercise/event. The contractor shall provide technical expertise on the use of the models or simulations, provide operational expertise on the particular theater environment, provide coordination and support between the users and the developers, and identify required capabilities to be incorporated into future model development.
- e. During the Execution Phase of FPC, the contractor shall be required to monitor and report on the progress of the AF simulation(s) to ensure the simulated training exercises/events provide a realistic presentation for the Warfighter. The contractor shall provide daily SITREPS (**see Section F, Deliverable 15**). The contractor shall immediately relay any identified questions regarding the AF model to the TPOC in order to coordinate a response with the model managers on issues as well as capture any action items. The contractor shall solicit, collect, and identify user requirement and relay those issues/needs/requirements from the user (Warfighter) and the model/simulation developer in order to make the necessary changes and facilitate integration into the model .

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- f. The contractor shall continually analyze the current M&S program development initiatives and ensure they remain synchronized with the efforts of other Federal agencies, and the DoD Services. The contractor shall track, assess, and coordinate M&S-related activities, initiatives, or related efforts to ensure military services are not duplicate efforts currently being developed or conducted throughout the technical community.
- g. The contractor shall assist in trade shows and conventions. Contractor support shall include displaying materials, facilitating M&S system presentations and demonstrations, describing how various systems work and how M&S/LVC training can assist DoD, and setting up and dismantling equipment.

### **C.4.2.3.1 PROVIDE LVC FIELD ADVISORY SUPPORT FOR THE USAF/JOINT LVC TRAINING COMMUNITY**

The contractor shall provide on-site LVC field advisory support at a variety of CONUS and OCONUS locations (AF, DoD bases, and locations zoned for Federal Government use) on a continual basis to support in accomplishing their mission. Specific LVC field advisory support for training in support of the Joint M&S community is detailed in the below subtasks. The contractor shall work alongside the Government staff to provide LVC simulation expertise for all supported missions. The contractor shall provide support to the planning and execution of LVC simulation-related exercises/events and ensure appropriate representation of the Federal Government's capabilities consistent with all applicable military service doctrine, DoD directives, Federal guidelines, authoritative guidance, and DoD regulations. The contractor shall provide direct LVC advisory support to the field site location as well as be responsible for additional nearby areas Area of Responsibility (AOR).

For the DoD, the contractor shall provide support to the JELC process as identified by the Government. The JULLS process accumulates AAR reports into a central secure location that is available to all future Warfighters. These JELC processes may include support to a series of pre-execution planning exercises/events that support each LVC exercise/event (e.g., the CDC, IPC, MPC, and FPC). The contractor shall provide support product documents (e.g., point papers, AARs, briefings, informational papers) required for the implementation of LVC capabilities at an identified training center or range complex. These reports shall identify and determine what events in the exercises/events were of a significant magnitude or were error prone and warrant the establishment of a permanent report so that future personnel can benefit from the mistakes incurred. The contractor shall provide lessons learned (**see Section F, Deliverable 18**) from the AARs to the JULLS.

The exercises/events that require LVC field advisory will vary from year to year. Section J, Attachment H provides a historical representative sampling of the exercises/events and off-site contractor supported requirements. The exercise/event schedule depends on the taskings of AF MAJCOMS, Joint National Training Capability (JNTC), COCOMs, Sister Services, and other outside agencies.

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While supporting the AF, the contractor shall be required to participate in a review of the products (e.g., Air Tasking Order, Airspace Control Order, Air Force Synthetic Environment for Reconnaissance and Surveillance (AFSERS) presentation, and Air Constructive Environment-Information Operations Suite (ACE-IOS) presentation) and report on their accuracy, completeness, and realism. The contractor shall assist in the analysis, development, and integration of M&S requirements into an exercise/event collection matrix utilized to capture user M&S requirement from the community. These requirements will then be used to assist in the future M&S development. The contractor shall monitor specific response cells to ensure the accuracy and availability of C4I information and ensure it is provided to the user in a timely and correct format.

The contractor shall provide the Governmental papers (e.g., information, point, white, bullet background, and decision papers) discussing the results, findings, recommendations, and impact of meeting decision outcomes, and provide input on courses of action to implement and/or mitigate changes that result from these decisions (**see Section F, Deliverable 19**).

Field Advisory Sites may include but are not limited to the following sites:

- Hurlburt Field
- Nellis AFB
- Joint Base Pearl Harbor-Hickam
- Scott AFB
- Kirkland AFB
- Offut AFB
- Wright-Patterson AFB
- Langley AFV
- Suffolk, VA
- Lackland AFB
- Tyndall AFB

### **C.4.2.4 SUBTASK 2.4 - PROVIDE LVC FIELD ADVISORY SUPPORT FOR TRAINING (OPTIONAL)**

This support shall provide the Government with additional LVC field advisory support and the M&S Community with initial LVC field advisory support. The Government anticipates LVC field advisory support for training to grow over the remaining TO PoP. LVC field advisory growth in support of the Joint M&S Community shall be detailed in a RFS. Support to this Subtask may require contractor personnel to possess TS clearance with SCI eligibility or a TS-SCI clearance and will be determined by the security location requirement.

### **C.4.2.5 SUBTASK 2.5 - PROVIDE M&S OTHER FIELD ADVISORY SUPPORT (OPTIONAL)**

The contractor shall provide M&S field advisory expertise in support of RFSs focused on the infusion of LVC capabilities with other M&S functional areas (other than training). M&S field advisory support shall be provided on- or off-site at various CONUS locations assisting the M&S Community in accomplishing their missions. The contractor shall provide M&S field advisory



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support to the planning and execution of LVC simulation related events/demonstrations consistent with all applicable military service doctrine, DoD directives, Federal guidelines, authoritative guidance, and DoD regulations. The contractor shall support the integration of emerging LVC capabilities as they evolve over time. The contractor shall support developed program plans on emerging LVC capabilities by providing the following:

- a. LVC simulation subject matter expertise for all supported RFS missions, support to the planning and execution of LVC simulation related exercises/events, expertise of air, space, and cyberspace to facilitate and ensure appropriate representation of AF capabilities consistent with all applicable military service doctrine, DoD directives, authoritative guidance, and DoD regulations.
- b. Subject matter expertise of planning processes by which all training exercises are developed following rigorous timelines.
- c. Subject matter expertise at the planning and execution of Government-selected event(s). Events vary from year to year; Section J, Attachment H provides a historical representative sampling of the exercises/events and off-site contractor supported requirements. The schedule depends on related exercise/event taskings for that year.
- d. Assist in ensuring support for training, exercise, and mission rehearsal are consistent with corresponding military service doctrine, DoD directives, authoritative guidance in facilitating respective military service participation in events, and DoD regulations, Command and Staff/C2 operations, and specific exercise directives (many of which are classified).
- e. Prepare, document, and maintain AARs (**See Section F, Deliverable 17**) for each event supported.
- f. The Government anticipates that over the life of this TO that M&S services and capabilities will grow over the five year TO PoP.

### **C.4.3 TASK 3 – PROVIDE M&S TECHNICAL SUPPORT (OPTIONAL)**

As M&S/LVC continues to be increasingly complex due to advancements in technology and the continual need for more realistic training scenario. M&S technical support services and products (i.e., simulation models, software applications, and hardware) provide the support needed to keep up with advancements in the M&S/LVC community. M&S/LVC technical services and products will ensure the structural integrity and infrastructure needed to meet environments. This will improve interoperable and prevent unnecessary duplication/redundancies across M&S communities. The contractor shall provide CDIS, Cybersecurity, and M&S enhancement and sustainment technical services to design, develop, code, test, and maintain the simulation models in support of any type of M&S exercise/event.

#### **C.4.3.1 SUBTASK 3.1 - PROVIDE M&S SUSTAINMENT, TESTING AND ENHANCEMENT SUPPORT**

The contractor shall provide M&S sustainment, testing, and enhancement support at a Government facility and/or remotely for training, mission rehearsal, testing, and experimental exercises/events. The Government defines M&S sustainment support as the modification of a software or hardware product after delivery to correct faults or to improve performance or other attributes. Software

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sustainment (or maintenance) is a very broad activity that includes error correction, enhancements of capabilities, deletion of obsolete capabilities, and optimization.

The Government defines M&S testing support as the process and activities required to validate the functional and technical capabilities of the sustainment or enhancement of the simulations is suitable for the operational environment it is intended to support. The Government defines M&S enhancement support as any product change or upgrade that increases software or hardware capabilities beyond original client specifications. Enhancements allow software and hardware product performance scalability.

**Section J, Attachment AG** is a list of existing Air, Space, and Cyber Constructive Environment (ASCCE) models the contractor may support during an exercise/event.

### **C.4.3.1.1 PROVIDE CONSTRUCTIVE MODELS/VIRTUAL SIMULATORS SUSTAINMENT SUPPORT**

The contractor shall provide constructive models/virtual simulators support during planning and exercises/event tests to the Government. The contractor shall attend and participate in Government M&S technical discussions, meetings, conferences, demonstrations, workshops, seminars, and other related forums among the community stakeholders in support of constructive models/virtual simulators. The contractor shall attend Government-hosted exercises/events identified by the Government and support stakeholder meeting(s) such as User Working Group(s) (UWG). These Government-hosted exercises/events comprise of the user force and development agents for the constructive models/virtual simulator products of services. The contractor shall assist with preparation for these technical meetings, present information of future requirements from the user community, assist in the guidelines for prioritization, and assist in coordinating requirements throughout AF and other services. The contractor shall provide meeting reports that outline the discuss topics and note action items from these stakeholder/UWG meetings (**Section F, Deliverable 9**).

In addition, the contractor shall support the Government with Model Program Management Reviews (PMRs). Model PMRs occur at minimum biannually. The contractor shall support the Model PMRs by preparing documentation for the reviews, presenting information, and meeting reports outlining the discussion topics, providing recommendations, and identifying any action items (see **Section F, Deliverables 9 and 21**). See **Section J, Attachment AH** provides a representative agenda of a Model PMR the contractor may support over the five year PoP.

The process of modifying simulations is designed to correct deficiencies and encourage enhancements/prototyping to improve the efficiency and productivity of the models. The contractor shall monitor the status of the fixes and track their status through completion. Currently for the AF, an information tracking tool is used to track requirements. As outlined in Task 2, requirements are submitted by users and/or identified by Government personnel during the training exercises/events throughout the year. The contractor shall assist the Government in monitoring and tracking the requirements associated with modifications to constructive models/virtual simulators to include the following:

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- a. Track all baseline and software modifications for each of the constructive models/virtual simulators.
- b. Review requested capability improvements and revisions/modifications to the model(s).
- c. Incorporate the data from the exercise/event AARs as well as any discrepancies identified in the SITREPS into the database.
- d. Identify and/or review recommendations to resolve technical issues and problems.
- e. Track and monitor the status of requirements, work in progress, engineering change request (ECR), functional testing, and results.
- f. Track and monitor released baselines available to the customers.
- g. Support the Configuration Control Boards (CCBs), as identified by the Government, addressing functional integration tests associated with all sub-components of the constructive models/virtual simulators to include certified and accredited (C&A) issues.
- h. Work with the Model developer to support periodic development reviews and report on open items status approximately every six months, identify new requirements, and identify discrepancies.

For the AF, the contractor shall utilize the Air Force Common Computing Environment (AF CCE). Migrations to standardized enterprise infrastructure environments will take place, through the use of AF CCE services catalog and the cost model as the basis, to determine roadmaps supporting the infrastructure.

### **C.4.3.1.2 PROVIDE CONSTRUCTIVE MODELS/VIRTUAL SIMULATORS TESTING SUPPORT**

The contractor shall provide Constructive Models/Virtual Simulators testing support to include the following:

- a. Perform functional/operational testing.
- b. Develop functional/operational test plans.
- c. Draft product suitability documentation, and evaluation reports identifying any critical issues associated with Responsible Testing Organization requirements (**see Section F, Deliverable 23**).
- d. Facilitate the testing and training on M&S technologies utilized by the Government and the operation of equipment/software during technical demonstrations.
- e. Provide technical subject matter expertise on IT, hardware, software, technology, and engineering as it relates to M&S.
- f. Assist with the development, modification, integration, and testing of GFE and Government-owned computer software (e.g., Joint Data Translator) in support of technical requirements.
- g. Test the integration /or demonstration of hardware/software (e.g., commercial off-the-shelf (COTS) and GFE) for assessment against the initiative's technical requirements.
- h. Assist test exercises/event personnel remotely or on-site at the exercise/event test to ensure the constructive models/virtual simulators are functioning accurately and that communication feeds work in conjunction with the simulation developers, and assist in

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addressing questions related to the technical aspects of the models/simulators in support of the exercises/event.

- i. Advise the Government of any simulation performance issues identified during testing.

### **C.4.3.1.3 PROVIDE CONSTRUCTIVE MODELS/VIRTUAL SIMULATORS ENHANCEMENTS SUPPORT**

The Government's constructive models/virtual simulators shall require minor enhancements/modifications to the existing capabilities. The contractor shall provide support to constructive models/virtual simulators enhancements/modifications to include the following:

- a. Provide feedback and recommendations to the Government in the form of Baseline Change Requests (BCRs) for identified deficiencies. NOTE: BCRs will be considered enhancements/modifications.
- b. Consult on a case-by-case basis with the Government on the BCRs to determine what, if any, resolution will be required.
- c. Perform the following on all Government-approved BCRs:
  1. Categorize all BCRs.
  2. Conduct data gathering and analysis.
  3. Develop an initial design specification.
  4. Update code.
  5. Develop test plans.
  6. Conduct V&V and Q A reviews.
  7. Evaluate development and test documentation.
  8. Update the constructive models/virtual simulators user manuals/guides.
  9. Track all BCRs and corresponding actions taken by the Government and contractor in the MSR (**see Section F, Deliverable 7**) and upon Government request.
- d. Provide recommendations on updating the current M&S constructive models/virtual simulators and their subcomponents.
- e. Provide plans for transferring processing capabilities to the nearest JIE Installation Processing Nodes (IPN).
- f. Provide recommendations on transferring functions of the current M&S constructive models/virtual simulators as software services per the Joint Staff/J7's JLVC 2020 program. The contractor shall reference the JLVC 2020 Service Oriented Architecture (SOA)-based Services for M&S systems.

#### **C.4.3.1.3.1 PROVIDE M&S AIR, SPACE, AND CYBERSPACE CONSTRUCTIVE ENVIRONMENT (ASCCE) WITH ENHANCEMENT SUPPORT**

The Joint M&S community is the lead agent (user advocate) for ASCCE. ASCCE provides a major contribution to Joint training and integrates with other Services and Joint Federations (JLVC, JLCCTC). The contractor shall assist the lead agent or any other designated agency responsibilities associated with ASCCE and all the associated models to include the following:

- a. Integration of ASCCE models with Joint models and Sister Service models documenting impacts, recommendations, and requirements.

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- b. Identification of ASCCE models in support of JLVC and JLCCTC exercises/events.
- c. Identification of ASCCE models in support of AF AOC exercises/events and mission rehearsals, and ASCCE model LVC support to ASOC, JTAC, TACP, and NORTHCOM training exercises/events and mission rehearsals.
- d. ASCCE model integration with North Atlantic Treaty Organization (NATO) Integrated Command and Control (ICC) C2 system.
- e. Monitor the progress of other LVC integration initiatives/prototypes, specifically the Life Cycle Management Center (LCMC) AF Modeling and Simulation Training Toolkit (AFMSTT) SOA Modernization effort identifying potential impact to USAF integration efforts.
- f. Maintain accurate documentation of all ASCCE integration activities and resources required identifying scheduling conflicts.
- g. Maintain accurate documentation of all ASCCE requirements via the tracking tool identified by the Government. Manage data entry for both ASCCE tracking tool and exercise/event calendar. Complete the Government portion of the AF 1067s. Monitor ASCCE Change Requests (CRs)/Discrepancy Reports (DRs) development and progress through completion.
- h. Support all JLVC, JLCCTC, and ASCCE integration and validation test exercises/events.
- i. Support Government lead with ASCCE UWGs and ASCCE PMRs.
- j. Support Government lead with annual ASCCE tests.
- k. Support Government lead with Requirement Management Boards (RMB)/CCBs.
- l. Provide coordination and deployment of ASCCE tools to users.
- m. Participate with Government lead in teleconferences, meetings with development PMs (LCMC, 90 IOS, Joint Systems Integration Lab (JSIL)), and user community coordination.
- n. Support selected exercises/events and experiments.
- o. Support Government lead organizations with Air Staff coordination, document development, and document reviews.
- p. Integration of AFMSTT and Warfighter's Simulation (WARSIM) documenting impacts, recommendations, and requirements.
- q. Identification of Full Spectrum Exercise (FSX) flagged to use WARSIM in lieu of AWSIM for air operations; propose AF strategy and implementation - Outline and analyze course of actions for the appropriate portrayal of air, space capabilities in support of Mission Command and Control Program (MCTP).
- r. WarPath II 2ID exercise/event in Korea, documenting requirements, shortfalls in WARSIM, and AWSIM integration.
- s. Korean Simulation System (KSIMS) integration efforts documenting requirements, integration issues, and interface to development agents.
- t. Korea Command (KORCOM) operational plan, review, and analyze the recommended courses of action.
- u. Monitor the progress of other of LVC integration initiatives/prototypes, specifically the LCMC AFMSTT SOA Modernization effort, identifying potential impact to AF integration efforts.
- v. Maintain accurate documentation of all ASCCE integration activities and resources required, identifying scheduling conflicts.

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- w. Address space integration activities to include the ASCCE integration to support Global Positioning System (GPS) Jamming (degraded operations) and interface specifically to the GPS Environment Generator (GEG) in the JLVC and JLCCTC federations.
- x. Address the integration of LVC capabilities to support SOF community LVC-OT training requirements. Specifically address AFSOC and Special Operations Command, Korea (SOCKOR) needs through collaboration with Warfighter community and requirements analysis.
- y. Support on the following ASCCE projects:
  - 1. ASCCE integration with JLVC 2020
  - 2. AFMSTT Modernization
  - 3. CSI integration with NATO ICC (NATO C2 System)
  - 4. CSI integration with C2AOS/C2IS
  - 5. Air-Sea Battle (ASB) integration
  - 6. ASCCE integration with Space and Missile models
  - 7. ASCCE integration in support of Cybersecurity and Information Assurance (IA)
  - 8. ASCCE funding activities
  - 9. LVC Support to AFSOC Community
  - 10. AFSERS Integration to Deployable Constructive Calls for Fire Trainer, and KORCOM Efforts, to include the KORCOM Bridge

### **C.4.3.2 SUBTASK 3.2 - PROVIDE M&S SUSTAINMENT, TESTING, AND ENHANCEMENT SUPPORT FOR THE M&S COMMUNITY (OPTIONAL)**

This support shall provide the Joint M&S Community with additional M&S sustainment, testing, and enhancement support. The Government anticipates the M&S support to grow over the remaining TO PoP. M&S sustainment, testing, and enhancement growth in support of the Joint M&S Community shall be detailed in a RFS. Support to this Subtask may require contractor personnel to possess TS clearance with SCI eligibility or a TS-SCI clearance and will be determined by the security location requirement.

### **C.4.3.3 SUBTASK 3.3 - PROVIDE TECHNICAL SERVICES FOR THE M&S COMMUNITY**

Technical services for the M&S community include a wide variety of services that support the M&S community with technical subject matter expertise to meet their mission. These services include those required for M&S Systems as well as M&S Capabilities that take place in preparation or in support of conducting an exercise/event. The contractor shall support these functions of the Joint M&S community.

#### **C.4.3.3.1 PROVIDE TECHNICAL SERVICES FOR M&S SYSTEMS AND PROGRAM OFFICES**

M&S systems (i.e., simulations, hardware/software models, applications, portals, and servers) require specialized technical services to support M&S technology, functions, activities, and efforts. For example, knowledge management systems provide key components for training, business procedures, and ongoing simulation M&S activities. Technical services are required to maintain and operate M&S systems that include website/portal administration, content management,

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consolidation of training videos and courses, project management, and customer support. The contractor shall provide technical services to support the operations of M&S systems (e.g., web-based virtual world and extended M&S processing centers) to the Joint M&S community to include the following:

- a. **Information, Knowledge, and Content Management.** The contractor shall provide information, knowledge, and content management in support of M&S technical records, publications, documents; and Privacy Act and Freedom of Information Act (FOIA) information. The contractor shall develop and maintain a centralized repository of information, knowledge, and content management for M&S products/services.
- b. **Website/Portal Administration.** The contractor shall provide on and off-site website design, development, testing, and management support. Website/portal administration includes developing and maintaining web-based portal for M&S products/services. The contractor shall provide subject matter expertise in website development to design and maintain both COTS and Government off-the-shelf (GOTS) hardware/software infrastructures. Occasionally, the contractor shall provide graphic design and content layout management support to a web-based portal for M&S products/services.
- c. **Helpdesk and Asset Management System Support.** The contractor shall support unique simulation equipment and end-user devices directly supporting M&S capabilities. The contractor shall install and provide local configuration for on-site network simulation equipment and physical security services to the network and devices. The contractor shall monitor Automatic Data Processing Equipment (ADPE) and track M&S systems.
- d. **M&S Network Operations (NETOPS).** The contractor shall install and configure gateways, translators, and live to virtual Advanced Simulation Technology, Inc. (ASTi) radios. The contractor shall troubleshoot standard DoD networks and unique simulation networks (e.g., Distributed Mission Operations Network Attached Resource Computer Network (ARCNet)). The contractor shall troubleshoot from networks at Government sites to determine if these site(s) have access to classified and unclassified networks: Secret Internet Protocol Router Network (SIPRNet) and Non-secure Internet Protocol Router Network (NIPRNet). The contractor shall inform the Government if access to these networks is not granted and open a helpdesk ticket with the network provider.
- e. **Infrastructure Touch Maintenance.** Infrastructure touch maintenance includes local content management (CM) and local repairs of M&S products. The contractor shall maintain the equipment, environment generators, and M&S systems on-site for the Joint M&S community. The contractor shall update the current internal network configuration design for each enclave within five work days following a change and report these changes in the MSR (see Section F, Deliverable 7).
- f. **Project Implementation.** The contractor shall provide subject matter expertise in design and maintenance of all hardware/software infrastructures to support M&S capabilities. The contractor shall provide on-site and/or off-site technical M&S subject matter expertise to resolve issues affecting information management and information technology.. The

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contractor shall develop the necessary administrative documents to assist the Government in successfully acquiring needed technical products.

- g. **Adaptive Cyber/Cloud Based Broker Services.** The contractor shall provide recommendations on updating the Joint M&S community's current M&S enterprise or the subcomponents. The contractor shall request to leverage Defense Information Systems Agency Defense Information Systems Agency (DISA) services and the outcomes/resolution from the DISA Enterprise Information Services Office for server hosting, global content delivery service (GCDS), System Network Availability Performance System (SyNAPS), and DoD. The contractor shall also research potential solutions from industry and academia. Upon Government approval to proceed with the recommendation, the contractor shall implement the transition process to the solution.
- h. **Joint Information Enterprise (JIE) Broker Services.** In preparation for M&S capabilities to be aligned with JIE services, the contractor shall execute the necessary technical services. The contractor shall provide transformation services of data center(s) in accordance with the transformation services per Federal Data Center Consolidation Initiative (FDCCI) mandates. The contractor shall provide M&S server virtualization and consolidation solutions support.
- i. **Authoritative M&S/LVC Data Services.** To ensure interoperability across the M&S LVC community, programs and Government-managed M&S applications with requirements for terrain, weather, airfields, and red threat data or models are required to coordinate and obtain data or models from authoritative sources. The contractor shall assist these Government programs with managing M&S/LVC authoritative data services and requirements analysis. Throughout a program's life-cycle, the contractor shall assist Government program managers obtain data and models from the authoritative source and coordinate activities with authoritative source providers to ensure required resources are available to satisfy requirements with consideration to cost, schedule, and performance objectives. Additionally, the contractor shall regularly revisit all threat model requirements to ensure that threat characterizations remain representative of current intelligence assessments. The contractor shall assist program managers from legacy programs consider the use of authoritative data and models and determine if integration is fiscally feasible.
- j. **Six Sigma / Business Process Management Services.** To ensure the M&S Community's distributed simulation centers are the most efficient force structure, the contractor shall examine the current centers with optimization process models and provide Chief Architecture Officers (CAOs) with recommendations on improving LVC/M&S services to the end-users. The contractors shall use BPM tools such as the Suppliers – Inputs – Process – Outputs – Customers (SIPOCs) process; process flows; Responsible, Accountable, Consulted, and Informed (RACIs) matrix which describes the participation of various roles in completing tasks for planning, establishing, operating and maintaining an M&S simulation effort; and critical-to-quality trees (CTQs) and histograms in order to develop new architecture for force structures and workflow processes. The contractor shall use the BPM process to analyze impacts and benefits of countless variations of architecture. For the DoD M&S Community, the contractor shall use BPM processes to



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analyze the following architectural elements: Doctrine, Organization, Training, Materiel, Leadership, Personnel, and Facilities (DOTMLPF). The contractor shall optimize reengineered force structures visually; determine measurable tasks; determine optimal improvement areas by comparing various force structure and operational processes; deploy optional variations of force structures and operational processes on user-defined dashboards to monitor improvements in real-time and feed performance information back into the simulation model in preparation for the next improvement iteration; and provide recommendations on improving the process from scratch to prompt better results.

### **C.4.3.3.1.1 PROVIDE TECHNICAL M&S SUPPORT TO USSTRATCOM TEST AND INTEGRATION FACILITY (TIF)**

The USSTRATCOM TIF is a venue that allows the Strategic M&S Community to demonstrate and tryout systems for space and missile analysis activities. The venue has one persistent system called Training Space System (TSS). The TSS and its associated hardware and software are connected to the Strategic Training and Experimentation Network (STEN) which currently tunnels through SIPRnet and NIPRnet.

For the exception of TSS, other systems come and go for demonstration purposes only. The systems that currently exist to support the TIF include, but are not limited to, those listed in **Section J, Attachment J**. The TIF provides critical support to ongoing USSTRATCOM planning, war-gaming, training, contingency/crisis operations, and alternate futures research. The contractor shall provide on-site technical support to USSTRATCOM TIF at Offutt AFB, Omaha, NE. Contractor support to this subtask requires TS clearance with SCI eligibility clearance. The contractor shall assist the Command IA Officer (CIAO) and the TIF IA Manager (IAM) with lead agent responsibilities associated with the TIF to include the following:

- a. Provide technical M&S support of the TIF Information Systems (IS) throughout its lifecycle, from design through disposal.
- b. Support Defense Information Assurance Certification and Accreditation Process (DIACAP) and Risk Management Framework (RMF) efforts and periodically assist in the validation of the internal system controls to ensure implementation in accordance with the system documentation.
- c. Assist with upgrading and integrating activities of the TIF CONOPS to include lab and M&S consolidation CONOPS.
- d. Assist with the development and execution of the TIF's command-wide laboratory consolidation and implementation plan.
- e. Coordinate TIF activities across the Command, its components, and Unified Computing System (UCP) stakeholders so that USSTRATCOM continues to meet and exceed its national security goals and objectives and seamlessly transitions to the command's new C2 facility.
- f. Support the development and execution of the integration plan.
- g. Ensure the plan can integrate with other TIF components, new and emerging technologies/capabilities identified by USSTRATCOM to fulfill UCP-directed roles and integration concepts, contingencies, and capabilities associated with the new Command headquarters construction.

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- h. Provide support to the testing/instantiate prototype of enterprise-level exercise/event scheduling/event planning system per LVC-IA Plan.

### **C.4.3.3.1.2 PROVIDE TECHNICAL SERVICES TO THE M&S MEDICAL COMMUNITY (OPTIONAL)**

The Government continues to see dramatic growth in the medical field, both in the military and civilian sector. Medical institutions are using M&S education and training simulators to allow medical personnel to practice medical procedures never performed or prepare personnel on how to deal with challenges they may face in the field. The contractor shall provide technical services to medical community in support of RFSs focused on performing the following:

- a. Provide technical services to support the operations of medical M&S systems (i.e., simulations, hardware/software models, applications, portals, servers, web-based virtual world, and extended M&S processing centers).
- b. Manage authoritative data and leverage cloud-based services for medical M&S systems.
- c. Develop realistic simulation games and virtual environments and virtual patients to support health care education and training.
- d. Support and assist innovation, evaluation, and development simulation activities.
- e. Support system testing and human factors evaluation.
- f. Develop and support, advance surgical training using virtual reality simulators.
- g. Provide system support for Advanced Fellowships in Clinical Simulation.
- h. Conduct educational research on new and current learning opportunities and topics. Provide the findings to the Government.
- i. Develop, support and perform tele-simulation training and medical mannequin assessments.
- j. Develop, maintain, and administer medical portal/websites and consolidate training videos and courses.
- k. Provide IT project management and customer support for medical portal/websites and system users.
- l. Provide subject matter expertise to design and maintain all hardware/software medical M&S infrastructures.
- m. Manage all IA requirements, develop documents for DIACAP/RMF approval and monitor compliance within all associated medical M&S systems.
- n. Assist the Government system administrator with forecasting project costs.
- o. Coordinate with the Government system administrator to acquire technical products by drafting the corresponding administrative documents.
- p. Provide subject matter expertise in content management and coordinate with all M&S offices required to gather and consolidate training content (e.g., Computer Based Trainings (CBTs), Online Courses, etc.) to continually enhance the medical M&S system.
- q. Ensure the Government system administrator is kept abreast upon any technical problems that arise and resolve immediately.
- r. Provide website design, development, testing, management, web-content management, and graphics design.
- s. Support the development and maintenance of web-based medical M&S portals that may include 3D models.

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### **C.4.3.3.1.3 PROVIDE BUSINESS PROCESS MANAGEMENT (BPM) SUPPORT TO THE READINESS TRAINING CENTER/DISTRIBUTED TRAINING CENTER (RTC/DTC) CONCEPT PROGRAM**

The contractor shall provide business process management support to the RTC/DTC concept program. The contractor shall revitalize the RTC/DTC CONOPS. During the development phase of the CONOPS, the contractor shall use standard business practices to determine the most efficient force structure architecture (resources, processes, and tools). The contractor shall use BPM tools to develop the new architecture for RTC/DTCs. This CONOPS shall articulate the overall AF architecture for a fully integrated governance structure that connects to respective LVC resources and capabilities throughout the AF. The CONOPS shall provide a revitalized approach that delivers effective LVC/M&S training service to the Joint Warfighter.

The contractor shall report all technical (DOTMLPF) matters associated with the development or realignment of force structures, organizations, and processes in support of LVC-OT missions. These technical matters shall be reported to the CAO and TPOC. The contractor shall report Operational Command (OPCON) activities associated with the engagement of external customers to both the RTC program office and the TPOC.

The contractor shall assist with the following three focus areas:

Focus Area	Near Term Action	Objective
Manpower and Personnel	Identify the core workforce. Establish core RTC functions through the use of BPM tools.	Professional Workforce: Commander/Director LVC-OT Integrator/Federation Manager Exercise Planning/Coordinator
Process	Establish RTC mission/process definition and adopt best practices through the use of BPM tools.	Draft various AF RTC Enterprise Architectures through the use of BPM tools. Use BPM tools to recommend the most cost-effective, efficient, cohesive, interoperable, and integrated RTC architecture based.
Technology	Work with groups outside of the RTC consortium to leverage their expertise in resolving standards, data management, IT networks, and overall best practices.	Improve efficiencies through the use of BPM tools.

The contractor shall assist the Government in documenting and identifying the skill sets, work scope, functions, and descriptions of the tasks/activities of the following three core manpower and personnel positions. This information will be the base requirement for personnel participating in

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the planning, operating, and maintaining of an M&S simulation effort on behalf of the RTC. The below table is the BPM Architecture Effort on Core Manpower Requirements for RTC/DTC:

Core Manpower Requirements	Description
Commander/Director ("MAJCOM's RTC LVC Lead")	RTCs have a designated leader in a position of authority and accountability responsible to implement the AF LVC-OT Vision and Flight Plan. This position may also serve as the "MAJCOM's LVC Lead" as designated by their MAJCOM.
LVC-OT Integrator / Federation Manager	The LVC-OT Integrator is the lead technical advisor for RTC operations. Responsibilities include planning, development, testing, analysis, and training/exercise support activities between the RTC and other organizations. The individual shall have hands-on technical integration planning experience and hands-on integration work required in preparation for and during an exercise/event. The individual shall federate the distributed simulations in support of an exercise/event and assist the RTC in supporting the operation of a simulation. The individual shall have hands-on technical integration experience linking automated command and control systems/battlefield information, current and future LVC simulations and simulators, and the integration of C4I Interface Systems into the LVC training environment. The individual shall ensure the simulations are functioning accurately when the simulations are integrated in a federation. The individual shall ensure the federated simulations are integrated appropriately by verifying the representation of the entities and ensure their behaviors are transmitted, processed, and presented technically correct for a federated simulation environment. The individual shall coordinate with the respective communication provider to ensure communication feeds work properly. The individual shall advise the commander of any simulation issues.
Exercise Planning / Coordinator	Responsible for exercise planning and/or scenario development to include coordination of white/blue/red forces necessary to execute the exercise/event.

### **C.4.3.4 SUBTASK 3.4 - PROVIDE TECHNICAL SERVICES FOR M&S SYSTEMS AND PROGRAM OFFICES FOR THE M&S COMMUNITY (OPTIONAL)**

This support shall provide additional technical services and initial technical services for the Joint M&S Community. The Government anticipates technical services support to grow over the five year TO PoP . These technical services shall be detailed in a RFS. Support to this Subtask may require contractor personnel to possess TS clearance with SCI eligibility or a TS-SCI clearance and will be determined by the security location requirement.

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### **C.4.3.5 SUBTASK 3.5 - PROVIDE TECHNICAL SERVICES FOR M&S CAPABILITIES**

M&S technical services for M&S capabilities provides the specialized technical support for conducting an exercise/event and operating and maintaining systems for M&S capability demonstrations. These specialized technical services for M&S Capabilities include Technical M&S Exercise/Event Services, Federation Integrator Services, Entity Enumerations Coordinator Services, M&S Database Services (includes Model knowledge), and Master Scenario Event List Controller Services. Support to this subtask may require contractor personnel to possess TS with SCI eligibility and will be determined by the security location requirement and requirements for which the contractor personnel are providing support. The contractor shall provide the following technical services:

- a. **Technical M&S Exercise/Event Services.** Technical M&S services are the technical exercise/event planning and integration testing component of an exercise/event. The contractor shall assist with the preparation for and during an event/exercise. The contractor shall provide technical subject matter expertise to assist the Government in administering and operating Live C4 devices (e.g., TBMCS, ADSI, etc.) by providing design, development, integration, and testing for an exercise/event. The contractor shall support exercise/event network operation teams by answering questions related to coordinating M&S communication, network and simulation protocols, and assist with the planning data that will be required for the IA POCs. The contractor shall install and provide configuration for the M&S system and ensure appropriate physical security measures are addressed. The contractor shall perform functional testing, execute test plans, and review product suitability documentation. The contractor shall monitor and track the M&S systems.
- b. **Federation Integrator Services.** Federation Services are the technical integration planning and hands-on integration work required in preparation for and during an exercise/event. The contractor shall federate the distributed simulations in support of an exercise/event and assist the Government in supporting the operation of a simulation. The contractor shall ensure the simulations are functioning accurately when the simulations are integrated in a federation. The contractor shall ensure the federated simulations are integrated appropriately by verifying the representation of the entities and ensure their behaviors are transmitted, processed, and presented technically correct for a federated simulation environment. The contractor shall coordinate with the respective communication provider to ensure communication feeds work properly. The contractor shall advise the Government of any simulation issues.
- c. **Entity Enumerations Coordinator Services.** Entity Enumerations Coordinator Services are the entity enumeration work that requires hands-on coordination, knowledge and technical expertise in applying enumerations in accordance with standards guidance. Entity Enumerations Coordinator Services also apply operating system commands at a terminal to ensure smooth operations of a simulation during an exercise/event. The contractor shall work in conjunction with other Entity Enumeration Coordinators to ensure the federation is applying the same enumerations in accordance with the Non-Government

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standards development (i.e., Simulation Interoperability Standards Organization (SISO) and Institute of Electrical and Electronics Engineers (IEEE)). The contractor shall provide technical subject matter expertise of the Linux operating system and apply Linux/Unix commands during an exercise/event to ensure smooth operations of all simulations executing in run-time. The contractor shall assist in supporting the operation of a simulation by maneuvering entities during the exercise/event on behalf of trainer/tester.

- d. **M&S Database Services (includes Model knowledge).** M&S Database Services are the technical integration planning and hands-on design, development, integration and testing work required before in preparation for and during an exercise/event. The contractor shall provide technical subject matter expertise in M&S environments, and database management and administration. The contractor shall verify and confirm technical suitability requirements for data (i.e., Terrain/Feature, Scenario, Event Log) to support an exercise/event. The contractor shall ensure the authoritative White/Blue/Red data are used appropriately for the exercise/event to ensure simulation integration. The contractor shall assist the Technical M&S Exercise/Event Planner with testing.
- e. **Master Scenario Events List (MSEL) Controller Services.** The MSEL Controller Services are the technical integration of incorporating Scenario Events into the planning and integration work required in preparation for and during an exercise/event. MSEL Controller Services also include applying computer software commands at a terminal to ensure scenarios are carried out respectively during an exercise/event. The contractor shall provide advisory support between the simulation operators and the users during an exercise/event. The contractor shall assist with development of scenario events into the planning and technical integration work. The contractor shall assist the simulation operators by answering any questions while monitoring and addressing the MSEL used during the exercise/event.
- f. **Threat Generator Services.** The Threat Generator Services are the technical analysis, integration, and development of a defined and future “standard” for a Common Threat Generator. The contractor shall assist with the analysis, technical development, and delivery of a Government-off-the-shelf (GOTS) Common Threat Generator. The Common Threat Generator shall be able to accommodate new and emerging threats, and be able to accurately interact with all Major Design Series Full Mission Simulator equivalent throughout DoD. The contractor shall coordinate with stakeholder organizations on analysis, technical development, and delivery developments. In addition, the contractor shall maintain and sustain the Government Common Threat Generator.

### **C.4.3.5.1 PROVIDE TECHNICAL SERVICES AT JOINT DEVELOPMENT INTEGRATION FACILITY (JDIF) AND SECURE PROCESSING AREA (SPA)**

The contractor shall provide technical services in support of integration activities at the Joint Development Integration Facility (JDIF) and within the Secure Processing Area (SPA). The contractor shall assist with Technical M&S Exercise/Event Services, Federation Integration Services, Entity Enumerations Coordination Services, and M&S Database Services in support of initiatives associated with M&S capability demonstrations. The contractor shall assist the

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Enterprise IT and JDIF Testing team with lead agent responsibilities associated with the JDIF and SPA to include the following:

- a. Assist with answers to technical questions related to M&S activities at JDIF and the SPA.
- b. Support Test Events at the JDIF by running the JLCCTC federation and other federations may be tested using DIS and HLA simulation protocols for ASCCE and AWSIM integration efforts.
- c. Install and provide configuration support to M&S systems and ensure appropriate physical security measures are addressed for the M&S systems.
- d. Document receipt, custody, issuance, transmittal, storage, accountability, classification, and destruction of all Classified Material. This includes maintaining logs and journals to comply with all applicable DoD security, regulatory, and policy guidelines.
- e. Operate and manage the SPA.
- f. Assist in minor touch maintenance support of JDIF Infrastructure upgrades that support the Government initiatives.
- g. Run simulations and work on Linux operating systems while performing system administration duties.
- h. Re-instantiate M&S environments and databases that utilize ASCCE suite of models and special project applications such as the System Architect Application System while in the SPA as well as in the JDIF.
- i. Assist with minor technical tasks associated with various generic IT systems, software applications, and C4 devices initiatives.
- j. Assist and support Government activities for various systems that are not part of the ASCCE suite or one intended to interface with ASCCE (e.g., Windows Server Enterprise Systems, Microsoft Exchange Server, VMWare, Zero Clients, DISA Enterprise Services, PowerEdge Servers, Virtual World Framework, and Linux OpenShift). This support shall include providing subject matter expertise on the initial capabilities of the system and setting up temporarily integration efforts in support of system demonstrations.
- k. Install, integrate, and provide system administration services on ASCCE Suite of models, AWSIM, and TBMCS for test events, trade-shows, General Officer visits, test lab activities, and other projects requiring interface connection of these simulations.
- l. Maintain an inventory of all classified media and documentation stored in the SPA.
- m. Ensure that the SPA is kept in an orderly and clean condition, and not used for storage of unrelated materials.
- n. Monitor all environmental conditions in the SPA to ensure proper humidity, temperature, and safety and report incidents to the facility manager, network manager, and Government representative.
- o. Assist in maintaining the physical security of the SPA IAW Air Force Instruction (AFI) 33-115 V1, and all governing AF guidance with oversight to the SPA.
- p. Perform functional testing, execute test plans, and review product suitability documentation.
- q. Monitor and track M&S systems.
- r. Operate and maintain cipher locks and operational security (i.e., log keeping and alarm system operating) for the SPA.
- s. Ensure computer equipment and network devices are correctly installed and positioned/stored in the JDIF and SPA.

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### **C.4.3.5.2 PROVIDE TECHNICAL SERVICES TO AFNORTH DMO**

AFNORTH has a robust LVC capability for training the HLD mission. AFNORTH's DMO computer information suite includes oversight of 20 plus different simulation and network components, applying system patching and modification, and executing a robust roadmap of tech refresh milestones. This DMO directly supports and benefits portions of the Air Force Modeling and Simulation Toolkit (AFMSTT), including AWSIM.

The contractor shall provide technical support to AFNORTH (1AF) A9M for the DMO program. Technical support to the LVC mission training shall be executed at three locations: Tyndall AFB, in FL, Eastern Air Defense Sector (EADS) in Rome, NY, and Distributed Training Operations Center (DTOC) in Des Moines, IA. The contractor shall provide technical support to include the following:

- a. Configure DMO training networks and related systems for training and implementation of technical refresh and system modernization goals.
- b. Analyze and assess gaps in LVC technology, including distributed interactive simulation (DIS) compliant environmental generators such as Advanced Simulation Combat Operations Training (ASCOT), voice simulators, data link systems, and related network components.
- c. Coordinate and implement technology upgrades.
- d. Configure network architectures such as the Homeland Defense Air Reserve Component Network (HLD ARCnet) to support recurring training exercises/events and related exercises/events such as Joint Deployable Integrated Air and Missile Defense (JDIAMD).
- e. Coordinate scheduling activities to ensure maximum utilization of LVC networks and systems.
- f. Provide real-time technical support during LVC training exercises/events and research and development testing sessions.
- g. Develop technical documentation of system changes, modifications and upgrades to key LVC constructive and virtual simulators including ASCOT, Multi-Aircraft Simulator (MACS), and AWSIM.
- h. Conduct IA activities to ensure system hardening in accordance with DoD IA policy.

### **C.4.3.5.3 PROVIDE SCENARIO DEVELOPMENT TECHNICAL SUPPORT TO AFNORTH**

The contractor shall provide scenario development support to AFNORTH for LVC training, scripts, and related materials in support of the Defense Support to Civil Affairs (DSCA) air flow mission, including the Regional Air Mobility Coordination Center (RAMCC) capability. The contractor shall provide scenario development support to include the following:

- a. Design DSCA air flow scenarios in response to real-world situations.
- b. Develop special instructions (SPINS) and fragmentary orders (FRAGO) for each exercise/event.



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- c. Develop Scenario Events into the planning and technical integration work for Title 32 exercises.
- d. Develop LVC training architectures for realistic injection of aircraft movements into AMD training databases such as Global Decision Support System (GDSS).
- e. Prepare exercise/event pre-mission briefings and capture/integration of lessons learned.
- f. Draft white cell injects to stimulate real-time problem solving skills for management of arrival times, offload times, and transfer of cargo in accordance with mission priorities.
- g. Oversee real-time execution of LVC training exercises/events.

### **C.4.3.6 SUBTASK 3.6 – PROVIDE TECHNICAL SERVICES FOR M&S CAPABILITIES TO THE USAF/JOINT M&S COMMUNITY (OPTIONAL)**

This support shall provide additional technical services for M&S capabilities and initial technical services. The Government anticipates technical services for M&S capabilities to grow over the remaining TO PoP. These technical services shall be detailed in a RFS. Support to this Subtask may require contractor personnel to possess TS clearance with SCI eligibility or a TS-SCI clearance and will be determined by the security location requirement.

### **C.4.3.7 SUBTASK 3.7 - PROVIDE M&S/LVC CYBERSECURITY SUPPORT**

The U.S.'s ability to fight on the ground, at sea, in the air, and in space depends on computer networks. The continual network threat through cyberspace illustrates this as an area the U.S. is vulnerable to attacks. M&S community requires cybersecurity subject matter expertise to assist them in developing constructive capabilities to train in a synthetic environment against cyber-attacks. Support to this subtask requires a TS with SCI eligibility clearance and contractor support shall be IAW policies and regulations in **Section J, Attachment AB**. The contractor shall assist the Government with C&A requirements (systems & networks) in support of M&S/LVC requirements. The contractor shall process the C&A approvals for software releases and network connections supporting Government M&S/LVC systems. The contractor shall follow Security Technical Implementation Guidelines (STIGS) to baseline M&S/LCV systems and implement IA guidelines in accordance with DIACAP or the Risk Management Framework (RMF). Additionally, the contractor shall maintain situational awareness and prepare for the follow-on phase after RMF. The contractor shall execute the RMF on M&S/LVC systems.

The contractor shall provide guidance and subject matter expertise of DoD and AF policies, instructions related to the C&A processes, AF Security, Interoperability, Supportability, Sustainability and Interoperability (SISSU) activity, DoD Enterprise Mission Assurance Support Service (eMASS) web based tool used to implement the DoD Information Assurance C&A Process, the AF Certification and Accreditation Process (AFCAP), and DoD's Risk Management Framework (RMF). The contractor shall provide security engineering to implement security controls and ensure these controls do not degrade performance and availability requirements needed to execute and sustain M&S/LVC exercises/events. The contractor shall report security findings and issues associated with the RMF process to the M&S Community Cybersecurity POCs. The contractor shall provide M&S/LVC cybersecurity to include the following:

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- a. Collaborate with Cybersecurity POCs to address C&A. The contractor shall work with higher headquarter organizations (i.e., for the AF: AFNIC, AFSPC/A6, SAF/AAZ) involved with C&A.
- b. Conduct technical exchange meetings.
- c. Review system architecture and DIACAP or RMF as well as their respective C&A documentation.
- d. Document problem areas and provide recommendations for a resolution.
- e. Conduct site visit follow-up on issues and resolutions.
- f. Document recommendations for process improvements.
- g. Provide a courtesy copy of any lessons learned to M&S community can analyze and share with the community.
- h. Provide guidance and subject matter expertise on the DISA JIE broker services for M&S systems.

The contractor shall review system artifacts (e.g., documents) for accuracy and perform hands-on testing of system security features. The contractor shall conduct facility visits to observe the actual processes related to each IA control (technical, personnel, operational, or management in nature). The contractor shall utilize tools such as Retina and Nessus scanners, DISA System Readiness Review (SRR) and Gold Disks, and database and web server security test tools.

The contractor shall perform hands-on validation of IA control implementation in M&S/LVC. The contractor shall base assessment primarily on the validation procedures of the DIACAP or RMF Knowledge Service and DISA STIGs. The contractor shall provide specialized subject matter expertise of the M&S/LVC community's systems.

Upon the Government's request, the contractor shall provide the initial planning phase to meet a next generation self-healing IT infrastructure. The contractor shall coordinate and collaborate with AFRL, National Security Agency (NSA), and DHS on addressing automated resiliency to gain spontaneous regeneration of our IT infrastructure.

The contractor shall participate in meetings with system Information Assurance Security Officers (IASOs), program managers, IA managers, and C&A authorities and their representatives. During these meetings, the contractor shall present overviews of issues and recommendations. The contractor shall provide meeting reports that outline the discuss topics and note action items from these meetings (**Section F, Deliverable 9**).

### **C.4.3.7.1 PROVIDE M&S/LVC CYBERSECURITY SUPPORT**

The contractor shall provide on-site M&S/LVC cybersecurity support. Support to this subtask requires a TS with SCI eligibility clearance. The contractor shall assist in providing a centralized management approach in addressing CDIS and C&A requirements (systems and networks) in support of the AF operational training community needs. In addition to the M&S/LVC cybersecurity functions in the above subtask, the contractor shall assist with additional cybersecurity functions to include the following:

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- a. Apply STIGS to baseline training systems, provide unit support in implementing IA guidelines in the transition from the DIACAP to the RMF, as well as maintaining situational awareness and possibly prepare for the follow-on phase after RMF.
- b. Assist the M&S training community by administering and executing the RMF on M&S.
- c. Support the development of a CDIS capability that provides a core set of tools with the ability to manually and/or automatically access and/or transfer between two or more different security domains.
- d. Provide cybersecurity training to the M&S community up to four times a year to ensure the AF training centers are fully certified IAW AF security instructions.
- e. Assist the CBT/Courseware team with inputs to provide standardized computer based training to IA Specialists teaching them how to process C&A packages. This training shall be provided at the RTC locations.
- f. Provide an assessment of resources (cost, schedule, staff/personnel) required to implement the CDIS Enterprise capability.
- g. Develop workflow maps for large-scale enterprise rule set development/modification, Assessment & Accreditation (A&A), management, and security/schedule verification.
- h. Collect validated requirements from Air Force Simulation Centers, CCMDs, and their customers regarding development of a CDIS architecture.
- i. Study and review approved CDS devices with AFNIC, DISA, and the Unified Cross Domain Solutions Management Office.
- j. Coordinate CDS solutions IAW the LVC-IA Plan.
- k. Maintain a comprehensive listing of CDSs in use for Title X Exercises/Events, Live Training, and Test Ranges.
- l. Assist in the identification of the security classification for M&S capabilities and processes.
- m. Apply specialized subject matter expertise of M&S systems in the community and identify operational use cases to further increase efficiency and assessment accuracy.
- n. Provide recommendations on fixing and mitigating how to fix or mitigate security vulnerabilities.
- o. Provide C&A advice, guidance, and review of identified technical products created by the Government and Program Offices to ensure they comply with National, DoD, and AF IA policies.
- p. Provide solutions to the security and technical challenges faced by the AF (e.g., lag in C&A approvals).
- q. Provide security engineering support to AF-managed LVC systems and assist in the implementation of security controls and the performance and availability requirements needed to sustain the mission.
- r. Prepare and maintain detailed templates, guides, and best practice examples for security operating procedures, trusted facility manuals, network diagrams/topologies, and software/hardware lists (e.g., detailed step-by-step procedures for operating and maintaining security software such as vulnerability and virus scanners, audit log backups, account maintenance, and service level agreements).
- s. Provide assessment of resources (cost, schedule, staff/personnel) required to correct identified security/IA deficiencies.
- t. Participate in meetings with system IASOs, program managers, IA managers (IAMs), and C&A authorities and their representatives. During these meetings, the contractor shall present overviews of issues and recommendations.

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- u. In preparation for the follow-on to “the continuous monitoring phase of the Risk Management Framework (RMF),” the contractor shall provide the Government inputs that would address the potential for a next generation self-healing IT infrastructure. The contractor shall provide the Government with a Self-Healing IT CONOPS Plan (**see Section F, Deliverable 24**) that addresses the inception of active response, sometimes identified as “active defense,” which can automatically regenerate the IT infrastructure to a minimally secure state, and be automatically resilient in order to get M&S activities back to an effective operating position. The contractor shall coordinate and collaborate with AFRL, NSA, and DHS on addressing automated resiliency to gain spontaneous regeneration of our IT infrastructure.
- v. Ensure new development is coordinated with JS/J7 and ensure that a C&A CDS is developed and delivered in parallel with upgrades and changes to models and/or simulations that could potentially have an impact on a current A&A CDS.
- w. Propose and document a systematic process for the CDIS that addresses the following objectives:
  - 1. Provides repeatable rule-set development methodology.
  - 2. Enables streamline A&A and facilitates reciprocity.
  - 3. Allow for rule-set reuse.
  - 4. Provides for secure storage and cataloging of rule-sets.
  - 5. Provides criteria for establishing rule-set to support the M&S community within the AF.

### **C.4.3.7.2 PROVIDE CYBERSECURITY SUPPORT TO AIR COMBAT COMMAND JOINT GROUND OFFICE (ACC/A3J)**

The contractor shall provide cybersecurity support for Joint Terminal Attack Controller (JTAC)-Tactical Air Control Party (TACP)/Operational Simulation Suite (J-T/OSS) and Air Support Operations Center (ASOC) Operational Simulation Suite (AOSS) in support of ACC/A3J. Support to this subtask requires a TS with SCI eligibility clearance. The contractor shall provide cybersecurity support to enable Air Support Operations Squadrons, Special Tactics Squadrons and schoolhouses in obtaining and maintaining cybersecurity approvals for all J-T/OSS and AOSS systems and the associated network connections impacting unit training. This includes supporting the J-T/OSS and AOSS Information Assurance Manager (IAM) and providing cybersecurity advice, guidance, recommendations, and review of identified products created by units for their specific sites to comply with Federal, DoD and AF IA policies. The contractor shall provide security engineering support to the IAM and configuration management (CM) team and assist in providing balance between the reasonable implementation of cybersecurity/security controls and the performance and availability requirements needed to sustain the mission. The contractor shall work to provide solutions to security and technical challenges to the user units in addressing cybersecurity requirements. The contractor shall provide cybersecurity support to assist the IAM in the planning, coordination and participation of the following activities:

- a. Collaborate within the J-T/OSS and AOSS user community to address cybersecurity issues (i.e., Air Force Program Executive Office (AFPEO) for Command, Control, Communications, and Intelligence (C3I) and Chief Technical Officer (CTO). The

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- contractor shall collaborate within the J-T/OSS and AOSS user community to address cybersecurity issues (i.e., AFPEO C3I & Navy Chief Technology Officer (N CTO)).
- b. Conduct technical visits with selected sites in support of recurring inspections.
  - c. Develop and/or update inspection checklists for site visits and provide completed visit checklist to IAM and ACC/A3J for each site visit.
  - d. Review system architecture and DIACAP/AFCAP/RMF documentation with selected sites.
  - e. Document problem areas with recommendations for resolution to ACC/A3J.
  - f. Conduct site visit follow-ups on issues and resolutions as needed.
  - g. Document recommendations for process improvements and provide to ACC/A3J.
  - h. Provide lessons learned quarterly for the J-T/OSS and AOSS user community to ACC/A3J for publishing (**see Section F, Deliverable 18**).
  - i. Conduct annual security reviews and provide report (**see Section F, Deliverable 25**) to the IAM and ACC/A3J.
  - j. Provide customer service support to installation sites as identified by the Government.

The contractor shall assist the Government in achieving consistent application/implementation of network and system security policies, countermeasures, and procedures under development and fielded to J-T/OSS and AOSS user sites. The contractor shall assist the IAM in assessing the accuracy and completeness of system accreditation packages in accordance with DIACAP/RMF to increase the overall security posture of the J-T/OSS and AOSS Program.

The contractor shall review system artifacts (i.e., documents) to determine if they are sufficient and current. The contractor shall perform hands-on testing of system security features, as well as witness first-hand, through facility visits, the actual processes related to each IA control, whether the controls are technical, personnel, operational, or management in nature. Tools such as the Retina/Nessus scanners, DISA System Readiness SRR, and STIG would be applied. Hands-on testing of system security features includes working with the J-T/OSS and AOSS configuration management team and imaging each system for consistent cybersecurity enabled configuration before being shipped to user sites.

The contractor shall perform hands-on V&V assessments of IA control implementation, based primarily on the validation procedures from the DIACAP/RMF Knowledge Service and DISA STIGs.

The contractor shall apply specialized knowledge of the user community's training systems and operational use cases to further increase efficiency and assessment accuracy. This includes maintaining configuration consistency dictated by the Type Accreditation of each system. Additionally, the contractor shall track annual security reviews and ensure security patches are updated in accordance with AF guidance.

The contractor shall assist the IAM in recommending how to fix or mitigate security vulnerabilities. The contractor shall prepare, maintain, and provide templates/guides/best practice examples for security operating procedures/trusted facility manuals, network diagrams/topologies, software/hardware lists, and other documentation. This includes detailed step-by-step procedures for operating and maintaining security software such as vulnerability and virus scanners, audit log backups, user account maintenance, and service level agreements.

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The contractor shall assist the IAM in assessing resources (cost, schedule, staff/personnel) required to correct identified security / IA deficiencies. The contractor shall participate in meetings with the IAM, site IASOs, configuration management team, and cybersecurity authorities and their representatives. The contractor shall be required to present overviews of issues and recommendations during Government meetings.

The contractor shall document its research, analysis, studies, and recommendations in written information, point, white, and decision papers (**Section F, Deliverable 19**).

### **C.4.3.8 SUBTASK 3.8 - PROVIDE M&S/LVC CYBERSECURITY SUPPORT TO THE M&S COMMUNITY (OPTIONAL)**

This support shall provide the Government with additional M&S/LVC cybersecurity support and initial M&S/LVC cybersecurity support for the M&S Community. The Government anticipates M&S/LVC cybersecurity support to grow over the remaining TO PoP. This M&S/LVC cybersecurity support shall be detailed in a RFS. Support to this Subtask may require contractor personnel to possess TS clearance with SCI eligibility or a TS-SCI clearance and will be determined by the security location requirement.

### **C.4.3.9 SUBTASK 3.9 - PROVIDE CROSS DOMAIN INFORMATION SHARING (CDIS) SUPPORT**

The rapid exchange of data across multiple domains at various security classification levels is critical in the coordination and execution of Government missions. CDIS is the ability to share data among mission partners and/or U.S. citizens at different classifications levels. This effort allows the sharing of training communications data across multiple environments, platforms, and mission areas enhancing M&S/LVC capabilities. Support to this subtask requires a TS with SCI eligibility clearance and contractor support shall be IAW policies and regulations in **Section J, Attachment AB**.

The contractor shall support the development of a CDIS capability that provides the Government with a core set of tools. The core set of tools shall have the ability to manually and/or automatically access and/or transfer between two or more different security domains. The contractor shall provide guidance and subject matter expertise on Test and Training Enabling Architecture (TENA). All development towards this core set of tools will be a non-proprietary solution. The contractor shall assist in the identification of the security classification of current M&S/LVC capabilities and processes. The contractor shall study and review current approved CDS devices and collaborate with both the M&S community's higher headquarters staff and the Unified Cross Domain Solutions Management Office.

The contractor shall maintain a comprehensive listing of CDSs in use for Exercises/Events, Live Training, and Test Ranges and collect validated requirements from Simulation Centers, CCMDs, and the M&S community regarding development of CDIS architecture. The contractor shall develop the workflow for large-scale enterprise rule set development/modification, A&A, management, and security/schedule verification. The contractor shall provide an assessment of

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resources (e.g., cost, schedule, and level of effort (LOE)) required to implement the CDIS Enterprise capability (see **Section F, Deliverable 26**).

The contractor shall provide and document a systematic process in order for the CDIS to address the following objectives:

- a. Provide repeatable rule-set development methodology.
- b. Enable streamlined A&A and facilitate reciprocity.
- c. Allow for rule-set reuse.
- d. Provide for secure storage and cataloging of rule-sets.
- e. Provide criteria for establishing rule-set to support the M&S community.

If the contractor is supporting a DoD organization, the contractor shall review current approved CDS devices with the Military Department's (MILDEP) headquarter staff responsible for CDIS, DISA, and the Unified Cross Domain Solutions Management Office before attempting to develop a CDIS solution or developing/modifying rule-sets, without checking to see a reuse capability currently exist in the DoD.

If the contractor is supporting a DoD organization, the contractor shall work alongside the MILDEP's headquarter staff responsible for CDS development. The contractor shall ensure new development is coordinated with JS/J7 and that a C&A CDS is developed and delivered in parallel with upgrades and changes to models and/or simulations that could potentially have an impact on a current A&A CDS. This is in partnership with similar JS/J7 efforts with JLVC 2020. The most current core CDS in use by the CDIS Pilot Project is the Distributed Training Network Guard (DTNG). The contractor shall assist the DoD and its respective support teams in the enhancement to the DTNG version 2.5.6 or later in order to support development, sustainment, and exercise support of an Enterprise CDS.

In addition, for all AF CDS development, the contractor shall coordinate CDS solutions in accordance with the LVC-IA plan and collect validated requirements from respective AF Simulation Centers. If the contractor is supporting a DoD organization, the contractor shall ensure CDS efforts are not duplicated across the AF. These include efforts to upgrade the Government-owned DTNG managed by the Navy and ensure successful information sharing exists between classified and unclassified networks for the DoD M&S/LVC training community.

All CDIS development and design shall be considered GFP once accepted by the Government.

### **C.4.3.9.1 PROVIDE CDIS SUPPORT TO AFNORTH DMO**

The contractor shall provide on-site support to AFNORTH DMO at Tyndall AFB, FL. Support to this subtask requires a TS with SCI eligibility clearance. The contractor shall provide AFNORTH with planning and execution support for HLD training exercises/events through a full-spectrum of LVC tools, networks, and processes. In addition to the M&S/LVC cybersecurity functions in the above subtask, the contractor shall assist with the following cybersecurity functions to include the following:

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- a. Prepare network architectures for exercises/events, develop and execute cybersecurity policy, and perform C&A of CDS components.
- b. Coordinate approval to operate Radiant Mercury CDS while developing plans to migrate from Radiant Mercury CDS to DTNG.
- c. Develop LVC exercise/event planning materials and network architecture for emerging mission sets such as JDIAMD.
- d. Attend technical meetings, conferences, and requirements gathering sessions to assist distributed training exercise/event planning.
- e. Collaborate on CDS and DIACAP/RMF policy, processes, and implementation of DTNG in support of LVC training efforts.
- f. Participate in scenario development and approval.
- g. Create, develop, and facilitate agreement on simulation network configuration and architecture.
- h. Facilitate integration test exercise/events.
- i. Provide AARs, lessons learned, and corrective action recommendations to migrate DMO capabilities and training processes toward an approved enterprise approach (**see Section F, Deliverables 17 and 18**).
- j. Facilitate design and production of print graphics and video materials in support of program advocacy briefings, LVC training mission highlight videos and related materials and AFNORTH DMO program goals.

### **C.4.3.9.2 PROVIDE CDIS SUPPORT FOR DMO COALITION TRAINING NETWORK**

The Government supports the requirements for a DoD LVC Coalition Network Training Capability. The contractor shall provide on-site support to assist with the establishment of a Combat Air Force (CAF) DMO coalition training network. Support to this subtask requires a TS with SCI eligibility clearance. This network shall have the capability to support tactical-level training with Australia, Canada, and United Kingdom military forces. The contractor shall provide planning and execution support to establish a SECRET, appropriately releasable, CAF DMO Network coalition training capability that will support tactical-level training with Australia, Canada, and United Kingdom military forces. The Warfighter validated requirement for a DoD LVC Coalition Network Training Capability is documented in the IA-ASLVCE ICD. In addition to the M&S/LVC cybersecurity/CDIS functions in the above subtask, the contractor shall assist with the following functions:

- a. Design and develop network architectures with CDIS capability that will be responsive to the training needs of our warfighting units. The design and development will not require the extensive planning and approval processes associated with typical coalition training exercises.
- b. In support of the CAO, the contractor shall work with AFMC (Office Title: AFLCMC/WNS) to design and develop network architectures with a repeatable DMO Network interface for tactical and lower operational-level coalition exercises.
- c. Attend technical meetings at ACC, AFSOC, Global Strike Command (GSC), AFMC, respective organizations and facilities throughout the country, various conferences, and requirements gathering sessions to assist in development of distributed training exercise/event capability.



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- d. Create, develop, and facilitate agreement on simulation network configurations and architectures.
- e. These facilitations shall focus on integration between AFSOC, ACC, GSC, AMC virtual simulators, and DMO integration with the Joint SOF air and ground forces.
- f. Assist in creating an approved connectivity fix for Distributed Mission Operation Network/Navy Continuous Training Environment (DMON)/NCTE, Air Force Special Operations Center (AFSOC) STEN, sites on ARCNet, and eventually multiple and various coalition networks as required.
- g. Assist in gathering and formalizing joint DMO/simulation event requirements for Airborne Warning and Control System (AWACS), Joint Surveillance and Target Attack Radar System (JSTARS), Control and Reporting Center (CRC), and Rivet Joint (RJ).
- h. Facilitate integration test exercise/events of the DMO Coalition Network in preparation for Emerald Warrior exercises. The training integration shall include CAF aircraft tactical elements, Medium to High threat enemy Integrated Air Defense (IAD) interdiction, GSC as additional CAS elements, and AMC's C-17 SOLL-II operators/simulators at Charleston, South Carolina (SC).
- i. Provide AARs, lessons learned and corrective action recommendations to maximize effectiveness of DMO capabilities and training processes toward an -approved enterprise tool (see **Section F, Deliverables 17 and 18**).
- j. Support the design and production of print graphics and video materials for program advocacy briefings, LVC highlight videos and related materials that address the network and CDIS capability as the solution for supporting a majority of AF missions within a coalition battle space.

### **C.4.3.10 SUBTASK 3.10 - PROVIDE CDIS SUPPORT FOR THE M&S COMMUNITY (OPTIONAL)**

This support shall provide the Government with additional CDIS support and initial CDIS support. The Government anticipates CDIS support to grow over the remaining TO PoP. This CDIS support shall be detailed in a RFS. Support to this Subtask may require contractor personnel to possess TS clearance with SCI eligibility or a TS-SCI clearance and will be determined by the security location requirement.

All CDIS development and design shall be considered GFP once accepted by the Government.

### **C.4.3.11 SUBTASK 3.11 - PROVIDE M&S STANDARDS SUPPORT FOR M&S/LVC SIMULATIONS**

The M&S community is continually promoting a common set of standards for the use and reuse of models, simulations, and data, as well as, to support protocols, techniques and processes. M&S standards provide a common language and set of expectations that enable interoperability between simulators. With a common set of standards, the M&S community can promote uniformity and align operational training techniques across M&S disciplines. All work related to the developed, designed, produced, and revised shall be considered GFP at the end of the TO PoP.

#### **C.4.3.11.1 PROVIDE AF-WIDE M&S/LVC STANDARDS SUPPORT**

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The Government is responsible for implementing LVC-IA AF-wide. The LVC-IA ensures the AF has interoperable standards, protocols, architectures, and databases for simulations supporting training, acquisition, experimentation, and analysis. The Government participates and engages with industry, both public- and private-sectors, academia, and Government organizations to promote widespread collaboration to satisfy common needs, lower development costs, influence COTS product development, establish a coordinated implementation process, and create common standards that will enable reuse and interoperability. The contractor shall consult, track, assess, and coordinate M&S standards-related activities, initiatives across the AF, DoD, other Federal organizations, academia, and the private sector.

The contractor shall provide support to the development and revision of standards efforts. For example, the contractor shall provide support in the development of an AF set of Virtual Simulator standards that supports the interoperability between MAJCOMs or joint/coalition members of the M&S Community using "Live Simulation Device Standards," mainstream IT standards used in the C4I community, and "Constructive Simulation Standards." The contractor shall ensure the virtual and constructive assets mirror live asses aircraft concurrency and "mission execution fidelity" driven by the Chairman of Joint Chief of Staff Instruction (CJCSI) 3500 series requirements which outlines the requirements of the Joint Mission Essential Tasks.

The contractor shall define the first set of interoperability standards for common models to increase consistency of terrain, weather, airfields, and red threat characterizations, as well as achieve cost savings across LVC training through the reduction of duplicative efforts. This shall include researching for commonality in training elements as well as applying modularity to AF virtual platforms. In order to adopt interoperability standards enabling the provision of institutional models to the M&S community, the contractor shall assist in identifying authoritative source of data and models for AF M&S-enabled programs and LVC applications.

The contractor shall be required to attend and participate in M&S advanced technology meetings when standards are identified as an agenda item. The contractor shall provide input, technical suggestions, analyze the information related to standards and the impact or benefit to the M&S Community, and provide recommendations on strategies and planning on standards.

The contractor shall support work related to establishing and maintaining a vetted and approved list of standards that support the AF M&S Community. The contractor shall thoroughly understand DoD Standards Program to include the Governance and Processes of the AF and DoD. The contractor shall support coordination efforts among the M&S Standards representatives (known as the M&S Standards Community) from each of the MAJCOMs or their respective M&S Functional Communities. Contractor support shall include:

- a. Assist in identifying, developing, establishing, and maintaining a process to establish and vet standards.
- b. Assist in drafting the plan to develop an AF-level set of DMO standards to assist in the establishment of a set of AF standards that supports interoperability between MAJCOMs or Joint/coalition.

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- c. Assist in the development of an AF level set of Virtual Simulator standards; specifically, standards that support AF-level DMO standards that will connect the CAF DMON to other networks like AFSOC, sites on Air Reserve Component Network (ARCNet), Navy Continuous Training Environment (NCTE), and eventually coalition.
- d. Provide technical expertise needed to maintain a standards profile for the AF M&S Community by developing an AF M&S Standards Process.
- e. Document, assess, and catalog current AF technical standards/protocols.
- f. Assist in surveying and reviewing Services, Joint, and Coalition standards and provide recommendations on the standards that need to be mandated and developed.
- g. Track standards development and adoption activities across AF and Joint training enclaves.
- h. Identify and document successes and limitations of integration standards.
- i. Research and compile lists of existing DoD standard profiles to include identifying a current list of standards for establishing an M&S baseline.
- j. Ensure hardware systems standards are coordinated with AF M&S Standards Community.
- k. Implement and apply uncategorized or emerging standards into the Distributed Simulation Engineering and Execution Process (DSEEP) family of standards.
- l. Assist and strategize with the CAO on potential methods to revise existing AF acquisition policies that will require standardization across all AF M&S efforts. This will allow for an approved LVC-OT standards profile, standardized configuration managed LVC-OT systems when supporting distributed training exercises, and oversight and guidance documents which direct RTC interoperability, infrastructure, and research efforts.
- m. Assist with the identification, measurement, and assessment of data exchange solutions that meet requirements for the AF-Wide M&S Standards activity.
- n. Ensure data exchange solutions are coordinated with AF M&S Standards Community.
- o. Support the Data Management/Authoritative Data Sources by coordinating with the following organizations:
  - 1. For Terrain Data - Office of Geomatics under the National Geospatial Intelligence Agency (NGA) as the authoritative source for topographic terrain data.
  - 2. For Airfield Data - Aeronautical Navigation Office under the NGA as the authoritative source for airfield data.
  - 3. For Weather Data - Second Weather Group under HAF/A3W as the authoritative source for weather data.
  - 4. For Red Threat Models and Data - Defense Intelligence Enterprise as the authoritative source for red threat models and data. This data is originally derived from NASIC, the Missile and Space Intelligence Center (MSIC), the National Ground Intelligence Center (NGIC), and the Office of Naval Intelligence (ONI).
- p. Support the CAO by providing authoritative data and model references during acquisition efforts to ensure interoperability throughout LVC architectures.
- q. Assist in establishing a readily available library of common and interoperable models. The library shall support MAJCOM readiness, training, OT&E, operational, analysis, acquisition, and T&E functions for all four authoritative sources. Multiple versions may be required to handle multiple levels of security and releasability.
- r. Ensure that Knowledge Management (KM) solutions are coordinated with AF M&S Standards Community.
- s. Ensure that exercise/event integration planning is coordinated with AF M&S Standards Community.

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- t. Coordinate accreditation solutions with AF M&S Standards Community.

### **C.4.3.12 SUBTASK 3.12 - PROVIDE M&S/LVC STANDARDS SUPPORT (OPTIONAL)**

Additional M&S/LVC standards support may be required to support the Joint M&S community in the field. This support shall provide the Government with additional M&S/LVC standards support and initial M&S/LVC standards support to the M&S Community. The Government anticipates M&S/LVC standards support to grow over the five year TO . This support shall be detailed in a RFS. The contractor shall support the promotion of a common set of standards for the use and reuse of models, simulations, and data, as well as to support protocols, techniques, and processes. The contractor shall identify hardware components necessary to support LVC-IA Plan that supports Modular Open Systems Approach (MOSA). The contractor shall perform the following:

- a. Document hardware systems to identify successes and limitations.
- b. Document commonality in training elements and apply modularity to our virtual platforms.
- c. Formulate hardware standards for M&S/LVC capabilities and processes.
- d. Ensure hardware systems standards are coordinated with higher headquarters and their respective M&S/LVC Functional Community.
- e. Document, assess, and catalog standards/protocols across the DoD, for use by the MAJCOM/or equivalent simulation activity.
- f. Document, assess, and catalog directives, procedures, and guidance dealing with synthetic environment representation and usage across DoD or the Federal Government, for adoption or compliance by the M&S community simulation activities.

The contractor shall assist with the identification, measurement, and assess data exchange solutions that meet requirements for the Government organizations and their respective field units. The contractor shall perform the following:

- a. Document data exchange capabilities to identify successes and limitations.
- b. Ensure data exchange solutions are coordinated with the MAJCOM/or equivalent organization and their respective M&S Functional Community.
- c. Determine priority systems data exchange issues/solutions to achieve Iteration 1 capabilities.

The contractor shall ensure standards are appropriately considered throughout the planning phases. The contractor shall develop collaborative tools for the M&S/LVC exercise/event planning community of practice. The contractor shall coordinate with the exercise/event integration planning teams. The contractor shall ensure rules of engagement for integration and interoperability are established. The contractor shall provide analytical studies and the identification of standards to address integration interoperability issues.

The contractor shall review, determine, implement, and manage both V&V and A&A requirements. The contractor shall assist with policy formulation which integrates model, simulation, and network accreditation into M&S/LVC capabilities and processes. The contractor shall coordinate accreditation solutions with standards of the Government.

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### **C.4.3.13 SUBTASK 3.13 - PROVIDE M&S CAREER FIELD DEVELOPMENT SUPPORT FOR HEADQUARTERS AGENCIES**

The goal of an M&S Career Development is to increase M&S expertise throughout the Government. An M&S Career Development program provides continuing education, assists supervisors in the creation of Individual Development Plans (IDP), and provides a Community of Practice with relevant information for all levels of the M&S workforce.

The contractor shall assist the Government in developing and executing an M&S Career Development program. The contractor shall work with and maintain outreach with industry, academia, and other Government organizations to support the of M&S personnel.

The contractor shall provide research, information, and data collection, collation, and analysis to assist with the M&S professional development. The contractor shall assist by monitoring requirements and changes through a workforce analysis. The contractor shall assist the Government in drafting plans, strategies, advocacy briefings, program documentation, and providing recommendations to support the development and implementation of a career progression plan for the M&S career field.

The contractor shall work with industry/academia/Joint community/Services to facilitate new training requirements and integrate with DoD's transformation development program to include working the DoD M&S Coordination Office (DMS CO), Army M&S Office (AMSO), Marine Corps M&S Management Office (MCMSMO), Navy M&S Office (NMSO), Office of Personnel Management (OPM), and the Joint community. The contractor may be required to work with the OPM to facilitate knowledge, skills, and competency requirements for the development of a Federal Agency-wide M&S professional career field.

All M&S career field development products developed, designed, produced, and revised shall be considered GFP once accepted by the Government.

#### **C.4.3.13.1 PROVIDE M&S CAREER FIELD DEVELOPMENT SUPPORT**

The Government is responsible for developing and executing the AF M&S Career Development Program. The program is in the initial stages of development; AF M&S competencies and an overall structure have been identified for this workforce. The next stage of development includes position coding throughout the AF and the establishment of a series of career path plans to support the M&S career field. These plans include Individual IDPs, career succession plans, and career progression plans.

The contractor shall assist the CAO in developing force development (FD) programs by developing a Career Management Process for the development of M&S Career Development Plans and the development of templates for a career progression for M&S Professionals. In addition to developing an IDP infrastructure and Career Mapping Products, the contractor shall provide analysis on projection of needs for the M&S workforce, to include instituting an M&S intern program.

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The contractor shall assist in developing and executing training and education program for M&S at the awareness, application, manager, and executive levels. The contractor shall work with and maintain outreach with industry/academia/Joint community, and Services to support ongoing efforts in the education and professional development of AF M&S personnel by offering advanced educational opportunities, training at the application levels, and continuing education credit. The contractor shall assist Government workforce leads with coordinating AF M&S workforce status with DMS CO, AMSO, MCMSMO, NMSO, and the OPM to ensure the AF incorporates and aligns with knowledge, skills, and competency requirements as instructed or guided by the Federal-wide M&S professional career field.

The contractor shall research, collect, and capture education and training requirements as they are constantly evolving. The contractor shall assist in the assessment of the training needs within the M&S community in order to help identify gaps in performance and whether job knowledge deficiencies exist through research, information and data collection, collation, and analysis. Based on the outcome of the data assessments, the contractor may be required to research and identify new AF M&S training opportunities. The contractor shall assist with efforts that lead to consulting with the technical community and stakeholders on M&S implementation efforts, strategies, and related M&S training initiatives. The contractor shall review, assess, and provide inputs on stakeholder initiatives throughout the community.

The contractor shall participate in community technical development on current and future M&S implementation, strategies, and related AF matters for multiple workforce/occupation specialty codes and Air Force Specialty Code (AFSC) civilian training initiatives. The contractor shall provide recommendations to TPOC regarding cooperation with the technical community on activities that may bring potential benefit to AF M&S functions. The contractor shall prepare development concept plans for workforce/occupation specialty codes and civilian training initiatives and synchronize these concept maps with inter-departmental M&S initiatives. The contractor shall document its research, analysis, studies, and recommendations in written information, point, white, and decision papers (**see Section F, Deliverable 19**).

The contractor shall advise, assist, and conduct site visits to the AF M&S (MAJCOMS and COCOMS) with the development of AF M&S Career program and materials to ensure assigned personnel to M&S positions are able to keep their required skills current.

All M&S career field development products developed, designed, produced, and revised shall be considered GFP once accepted by the Government..

### **C.4.3.14 SUBTASK 3.14 - M&S CAREER FIELD DEVELOPMENT SUPPORT FOR M&S COMMUNITY (OPTIONAL)**

Additional support in the development of an M&S career field may be required to support the Government and initial development support may be required at Federal Agency's Headquarters level for the M&S Community. In an effort to create and standardize an M&S career field, the Government anticipates this support to grow over the five year TO PoP . The M&S career field development support shall be detailed in a RFS.

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All M&S career field development products developed, designed, produced, and revised shall be considered GFP once accepted by the Government..

### **C.4.3.15 SUBTASK 3.15 - M&S EDUCATION AND COURSEWARE DEVELOPMENT**

Part of the AF M&S Career Field Development is to provide the Warfighter with lifelong education, training, learning, and professional experiences. Throughout the DoD, the management, use, and development of the M&S workforce has historically been ad hoc, informal, and unique to each service and the DoD M&S community. M&S plays an integral part in the way the services train, educate, plan, analyze, acquire, test, rehearse, and conduct operations.

The contractor shall assist in developing and executing an education program that focuses on M&S at the awareness, application, manager, and executive levels as outlined in the Human Capital Strategy. The contractor shall work with and maintain outreach with industry, academia, Joint community, Services, and other Government organizations to ensure M&S personnel are offered advanced educational opportunities and M&S education at the application levels for continuing education credit. The contractor shall work with industry, academia, Joint community, Services, and other Government organizations to facilitate new training requirements and integrate with DoD's transformation development program to include working the DMSCO, AMSO, MCMSMO, NMSO, OPM, and the Joint community.

The contractor shall design, develop, and implement M&S-related courseware for the AF. The courses shall be in compliance with requirements for certification by the Government and the American Educational Council. The contractor shall support all phases of instructional systems design (ISD) to include: analysis, design, development, implementation, and evaluation. The type of courses to be designed shall include full development and/or modification of resident courses, web-based, and distributed learning (DL). The contractor shall formalize educational requirements into courseware to meet requirements. The contractor shall perform gap analysis and conduct research to identify potential mitigation solutions for gaps identified. All courses will be hosted at Government-funded facilities.

The contractor shall be required to design and develop, and update a one day course to include various versions. The contractor shall provide ISD support to develop three to four courses on an annual basis focused on the short courses that have typically three versions: One day workshop, 1 ½ hour tutorial, and executive 20 to 30 minute overview (**see Section F, Deliverable 27**).

The contractor shall participate in various levels of testing of the AF M&S products to include draft and final products and alpha and beta testing to ensure correctness, reliability, and efficiency of the courseware products being developed and/or revised. The contractor shall conduct and provide periodic reviews and testing of the courseware during the development phase. The contractor shall participate in the review of the AF M&S-related products during the development phase to include: treatments, draft and final products, design documents, test plans, test procedures, user manuals, GFI, for completeness, and technical accuracy. The contractor shall conduct alpha and beta testing at the Government site and other designated testing sites. Historically, the Government requires support for levels 1 and 2 of Interactive Multimedia

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Instruction (IMI). The contractor shall provide the necessary support required to support IMI levels 1 and 2.

The contractor shall assist the Government in maintaining, archiving, managing, obtaining feedback, and providing helpdesk support for the content of developed courseware materials to the user community. The contractor shall provide periodic updates to course(s) in order to provide the M&S community with content that is current and valid. The contractor shall support requests from the clients and M&S user community for courseware developed materials. The contractor shall track dates of the courseware development products against policy standards to determine what has changed and address any products that may now be obsolete. The contractor shall perform data mining, research requests, and provide technical support to the AF regarding on-line courseware inquiries. Occasionally, the contractor shall research and identify new M&S education and training opportunities that could benefit the technical community and Warfighter. The contractor shall assist the Government by providing recommendations to AF M&S training plans and programs that incorporates all Government-approved AF M&S training requirements.

The contractor shall support Awareness and Culturalization (A&C) efforts to assist the AF in infusing M&S basic skills and knowledge into the AF culture through Professional Military Education (PME) and Pre-Commissioning institutions, i.e., the U.S. military academies and within the Reserve Officers Training Corp (ROTC). A&C is the effort to enhance and accelerate M&S transformation through education, activities, and partnerships. The contractor shall support A&C efforts in accordance with AF PME controlling instruction.

All M&S educational and courseware developed, designed, produced, and revised shall be considered GFP once accepted by the Government..

### **C.4.3.16 SUBTASK 16 - M&S EDUCATION AND COURSEWARE DEVELOPMENT FOR M&S COMMUNITY (OPTIONAL)**

As the Government creates and standardizes an M&S career field, support for M&S education and courseware development may be required. This support shall provide additional M&S education and courseware development support and initial M&S education and courseware development support for the M&S Community. The Government anticipates M&S education and courseware development support to grow over the five year TO PoP . This M&S education and courseware support shall be detailed in a RFS. The contractor shall provide similar M&S education and courseware development support as stated below. This support includes:

- a. Support the development and implementation of educational programs and courseware for the DoD and/or Federal agencies.
- b. Design, develop, and implement M&S-related education and courseware.
- c. The contractor shall formalize educational requirements into courseware to meet requirements.
- d. The contractor shall perform gap analysis and conduct research to identify potential mitigation solutions for gaps identified.
- e. Ensure courseware is compliant with requirements for certification by the DoD and/or Federal agency and the American Educational Council. Collaborate with industry, academia, Joint community, Services, and other Government organizations to facilitate new



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education requirements and integrate with DoD's transformation development program to include working with the DMSO, AMSO, MCMSO, NMSO, AFAMS, OPM, and the Joint community.

- f. Collaborate with Human Resources and Workforce Management Offices to facilitate new training requirements and integrate with a national transformation development program to institute M&S professional career field.
- g. Provide requirements support to all four levels of IMI.

All M&S educational and courseware developed, designed, produced, and revised shall be considered GFP once accepted by the Government. In addition, all growth anticipated for M&S education and courseware development will be detailed in a RFS.

### **C.4.3.17 SUBTASK 3.17 - M&S INSTRUCTIONAL DESIGN SUPPORT**

Part of M&S Career field development is to design, develop, and produce training and educational opportunities. The contractor shall assist in developing FD education and training materials for M&S. The contractor shall design, develop, and implementation M&S-related courseware. The courses shall be in compliance with requirements for certification by the AF and the American Educational Council. The contractor shall support all phases of ISD to include analysis, design, development, and evaluation. The contractor shall formalize educational requirements into courseware to meet requirements. The contractor shall perform gap analysis and conduct research to identify potential mitigation solutions for gaps identified. The contractor shall ensure the validity and credibility of the courseware of both distributed and resident courses. The contractor shall perform content management of online course development.

ISD is the practice of creating instructional tools and content to help facilitate learning most effectively. The contractor shall assist in the design to ensure the most effective and efficient means are developed to present the information in a user-friendly and appropriate learning style. The contractor shall identify the outcomes of the instruction, guide the developing of the instructional content (scope and sequence), and establish how instructional effectiveness will be evaluated. The types of courses shall range from basic/introduction, application-oriented, technical workshops/tutorials, M&S manager's course, M&S advanced courses, and functional area courses to executive leadership courses.

The contractor shall provide the capability to provide periodic, short-term one to three day workshops with variants to support a 1 ½ day tutorial and executive view. Delivery of all one week courses will be classroom-based training and the all other delivered courses will be approximately 50 percent classroom and 50 percent web-based training (**see Section F, Deliverable 28**).

The contractor shall attend and participate in continuous technical development meetings, to include management reviews, status reviews, requirements reviews, and technical interchange meetings in support of the AF M&S courseware product development process. The contractor shall prepare meeting reports (**see Section F, Deliverable 9**) to include topics discussed, outcomes, recommendations, and decisions regarding the product development. AF M&S designed and

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developed courses may require C&A of the course developed. The contractor shall assist in preparing and defending the C&A packages throughout the development process.

The contractor shall ensure the developed ISD products are AF compliant and conform to requirements, standards, and procedures. The contractor shall follow the AF guidelines for the ISD process for both distributed and resident courses to ensure the validity and credibility of the courseware. The contractor shall ensure that the final developed courseware products are complete and accurate, only having minimal to nominal flaws, and meet or exceed the Governments requirements before the courseware is delivered to the M&S community.

In support of the ISD development process, the contractor, on occasion, shall be required to provide training hardware and software to include high-end developmental hardware stations capable of handling video, audio, simulations (gaming technology), and high resolution graphics and photos as identified by the Government. The contractor shall utilize the current Government software when available to design, develop, operate, and maintain online course development. The contractor shall provide expertise in online course development and all applicable content management aspects. The contractor shall coordinate with all necessary AF offices to gather and consolidate training content (e.g., CBTs, and online courses) to enhance the education capabilities for the AF.

All M&S instructional design products (i.e., education and training materials, courseware) developed, designed, produced, and revised shall be considered GFP once accepted by the Government.

### **C.4.3.18 SUBTASK 3.18 - M&S INSTRUCTIONAL DESIGN SUPPORT FOR M&S COMMUNITY (OPTIONAL)**

As the Government creates and standardizes an M&S career field, support for M&S instructional design may be required by the Government. This support shall provide additional M&S instructional design support and initial instructional design support for the M&S Community. The Government anticipates M&S instructional design support to grow over the five year TO PoP . This M&S instructional design support shall be detailed in a RFS.

This support includes:

- a. Ensure compliance with requirements for certification by the DoD and/or Federal Agency and the American Educational Council.
- b. Support all phases of ISD to include analysis, design, development, implementation, and evaluation.
- c. The contractor shall formalize educational requirements into courseware to meet requirements.
- d. The contractor shall perform gap analysis and conduct research to identify potential mitigation solutions for gaps identified.
- e. The contractor shall ensure the validity and credibility of the courseware of both distributed and resident courses.
- f. The contractor shall perform content management of online course development.

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All M&S instructional design products (i.e., education and training materials, courseware) developed, designed, produced, and revised shall be considered GFP once accepted by the Government. In addition, all growth anticipated for M&S instructional design support will be detailed in a RFS.

### **C.4.4 TASK 4 – PROVIDE INNOVATIVE M&S SERVICES AND CAPABILITIES (OPTIONAL)**

M&S is continually evolving and changes are constantly occurring due to technological advancements, process improvements, and capability assessments, and/or agency funding. Innovative projects in support of these emerging M&S simulation capabilities may include Research, Development, Test and Evaluation (RDT&E) initiatives. Advances in technology (e.g., hardware, software, communications, audio, visual, and haptic) have improved Warfighting capabilities across the DoD. Rapidly and effectively incorporating cutting-edge technology innovations into M&S improves its usefulness to Warfighters. Computer hardware and software capabilities impacting LVC Simulation performance have increased at a very rapid rate. These advancements can be challenging because technology that is useful and effective today may become outdated within a one to five year time period. The contractor shall provide on-demand support to emerging M&S simulation capabilities for the AF, across DoD, and occasionally to other Federal Agencies.

The Government anticipates that over the life of this TO that M&S services and capabilities will grow over the five year TO PoP .

#### **C.4.4.1 SUBTASK 4.1 - PROVIDE INNOVATIVE M&S EXPERTISE**

In the future, technology will expand to address new and emerging requirements including, directed energy, electronic warfare, remotely piloted aircraft, stealth, irregular warfare, counter improvised explosive devices, cybersecurity, CDIS, C2 of Integrated Air and Missile Defense (IAMD), and Air Sea Battle (ASB). The contractor shall provide on-demand subject matter expertise on the above functional areas to support the Joint M&S community in assessing and developing new capabilities.

The contractor shall assist in the assessment of constructive simulations supporting training within the AF and establishing rules of engagement for integration and interoperability. Contractor support shall include analytical studies and the identification of architectures and standards to address integration interoperability issues.

The contractor shall provide project management expertise and in the execution of the program plan/requirements for the emerging M&S capabilities. The contractor shall assist with the development and maintenance of project goals and objectives, execution plans, budgetary plans, and progress reports. The contractor shall prepare, maintain, and review required project documentation (e.g., financial reports). The contractor shall assist with planning and coordination of M&S proof-of-concept/technology demonstration exercises/events. The contractor shall facilitate the coordination of activities with other relevant entities and stakeholders. The contractor

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shall provide technical subject matter expertise for relevant IT, hardware, software, technology, and engineering as it relates to M&S.

The contractor shall provide relevant and knowledgeable technical and subject matter expertise for emerging M&S capabilities. The contractor shall conduct front-end analyses and analysis of alternatives on systems capabilities and requirements. The contractor may be required to provide surveys; project goals/objectives; briefing slides; requirements documents; plans for integration, operation, compliance, implementation, procedures, and execution of tests; project management and execution documents and procedures; research, analyses, and inputs reports; AARs or meeting notes with action items; technical reports; and AF M&S technical strategy, analysis papers, findings, impacts, plans, and inputs (**see Section F, Deliverable 29**).

The Government has multiple emerging M&S exercises/events and projects throughout the fiscal year and new innovative M&S capabilities are constantly introduced. The contractor shall provide the Government with the technical subject matter expertise to support innovative M&S initiatives. The contractor shall provide inputs for alternatives on M&S capabilities and requirements. The contractor shall identify and review inputs to resolve technical issues and problems for emerging projects. The contractor shall conduct engineering studies and M&S technical assessments, and participate in technical review meetings. The contractor shall develop, modify, integrate, and test GFE and Government-owned computer software in support of technical requirements. The contractor shall integrate and demonstrate operation of relevant hardware/software (e.g., GFE, COTS) for assessment and achievement against the initiative's technical requirements. The contractor shall develop and document System Architecture models, Measures of Effectiveness (MOEs) across various warface areas (e.g., C2, ISR, and Strike) and system/software requirements and capabilities.

The contractor shall participate in M&S planning conferences and exercises/events. The contractor shall develop, validate, document, and deliver constructive, interactive, and virtual models for use in LVC analysis and test exercises/events. The contractor shall facilitate and coordinate equipment/software installation, configuration, integration, and testing. The contractor shall facilitate training on utilized M&S technologies.

The contractor shall support technical planning and communications architecture design and development. The contractor shall support pre-demonstration testing, engineering, and integration activities. The contractor shall facilitate the operation and integration of equipment/software during testing and technical demonstrations. The contractor shall evaluate development and test documentation. The contractor shall facilitate, coordinate, and assist with data collection, analyses, and post-demonstration debriefings and reporting the results. The contractor shall develop and refine mission threads by decomposing them down to the use-case level for application to the LVC Distributed Mission Operations/Training (DMO/T) and acquisition assessment environments.

The contractor shall provide research, analyses, and recommendations for specified M&S topics and areas relating to emerging capabilities. The contractor shall support a seamless communication, facilitation, and coordination of the efforts of other Government agencies and/or contractors supporting the initiative.

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### **C.4.4.2 SUBTASK 4.2 - PROVIDE STRATEGIC PLANNING EXPERTISE AND ANALYSIS SUPPORT**

The contractor shall provide strategic planning expertise and analysis support. The contractor shall provide support for continuous learning, Warfighter readiness assessment, and analysis across LVC environments. This support includes strategic studies, assessments and analyses, innovations in simulation verification, validation and accreditation, and the identification and evaluation of alternative technologies to support LVC operations.

#### **C.4.4.2.1 PROVIDE STRATEGIC STUDIES, ASSESSMENTS AND ANALYSES SUPPORT**

The contractor shall evaluate alternative approaches to identify best-of-breed solutions and capabilities. The contractor evaluation shall include the impact on training and mission effectiveness and performance in test-bed, operational DMO, and LVC operations activities and environments. The contractor shall design and execute operational field studies and evaluate alternatives (see **Section F, Deliverable 30**). The contractor shall quantify and provide inputs for improvements to the LVC Enterprise and components. The contractors shall create and provide input on standards for the facilitation of LVC as a credible, realistic, secure, and readiness constructive training mechanism for the Warfighter. The contractor shall ensure these standards enhance warfighting in contested environments throughout the AF and with Service and Coalition partners.

#### **C.4.4.2.2 PROVIDE INNOVATIONS IN SIMULATION VERIFICATION, VALIDATION AND ACCREDITATION (VV&A)**

The contractor shall provide VV&A support. The contractor shall support the identification and development of innovative and mission- and performance-based methods. These methods shall permit the strategic and practical integration of competency hierarchies composed of knowledge, skills, experience definition processes, products with current scenario-based T&E methods, metrics, simulation validation and certification processes, extensions to develop quantifiable credibility assessments and gap analyses of environments, and models for DMO and LVC operations. The contractor shall support friendly, ambiguous, and adversary model development and validation. The contractor shall support related intelligence-driven model integration and validation in research and operational systems and scenarios. The contractor shall provide inputs for modifications to each of the processes to incorporate data and diverse methods processes and sources.

#### **C.4.4.2.3 PROVIDE IDENTIFICATION AND EVALUATION OF ALTERNATIVE TECHNOLOGIES TO SUPPORT LVC OPERATIONS**

The contractor shall support the definition, construction, and evaluation of alternative environmental enhancements to LVC simulation capabilities for multiple mission exploitation (e.g., fourth and fifth generation systems and capabilities integration, cyber operations, ISR

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operations, remotely piloted aircraft systems, and C2 decision making systems). This support shall include assessments of:

- a. Weather model evaluations.
- b. Different sensor representations.
- c. New and evolved adversary and friendly human behavior models.
- d. M&S Weapons.
- e. Mission capabilities manifestations in M&S tools and environments.
- f. New approaches to visualization and environmental acuity.
- g. Individual and team communications, information exchanges, and performance assessment.
- h. Helmet-mounted cueing and tracking tools and technology.
- i. Tools and technologies to provide multiple mission feedback and after action review in use cases such as day-to-day operations, Non-Traditional Intelligence, Surveillance, and Reconnaissance (NTISR) instances, and in Anti-Access Area Denial.

The contractor shall recommend and evaluate alternative approaches for more fully integrating intelligence into the DMO and LVC operations readiness constructs that improve fidelity, realism, and transfer to operational contexts.

### **C.4.4.3 SUBTASK 4.3 - PROVIDE CAPABILITIES AND INTEGRATION SUPPORT TO RDT&E, ACQUISITION, AND ANALYSIS CENTER SUPPORT**

The contractor shall support RDT&E, acquisition, and analysis missions utilizing varied M&S capabilities methods to validate requirements, evaluate potential gap solutions for operational utility, and to assess system capability, interoperability and mission effectiveness within Systems of Systems (SoS). The contractor shall support executing RDT&E, acquisition, and analysis missions including, the following activities, efforts, and areas:

- a. Provide project management expertise and support to the Program Manager in the execution of the program requirements.
- b. Support technical planning and communications architecture design and development.
- c. Develop, modify, integrate, and test GFE and Government-owned computer software in support of technical requirements.
- d. Develop and refine mission threads by decomposing them down to the use-case level for application to the LVC DMO/T and acquisition assessment environments.
- e. Develop MOEs across various warfare areas, including C2, ISR, and Strike.
- f. Develop, validate, document, and deliver constructive, interactive, and virtual models for use in LVC analysis and test exercises/events.
- g. Derive and document system/software requirements and capabilities.
- h. Develop and document situational awareness models and MOEs across various warfare areas (e.g., C2, ISR, and Strike).
- i. Develop situational awareness models and documentation.
- j. Facilitate, coordinate, and assist with data collection, analyses, and post-demonstration debriefing and reporting the results.
- k. Integrate COTS and GFE equipment/software within the AF Enterprise and/or LVC Simulation environments to achieve the initiative's functional and analytic requirements.

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- l. Support front-end analyses and analysis of alternatives on systems capabilities and requirements.
- m. Conduct and support LVC assessment studies.

### **C.4.5 TASK 5 – PROVIDE ANCILLARY SUPPORT SERVICES (OPTIONAL)**

The RFS shall provide support services which include administrative management, IT support services, and M&S A&C support. The contractor shall provide support services to the designated location..

#### **C.4.5.1 SUBTASK 5.1 – PROVIDE ADMINISTRATIVE MANAGEMENT SUPPORT**

Program administrative management broadly encompasses a variety of limited support type functions including security management, meeting support, travel management, resource (non-financial) tracking, correspondence, and administrative functions that directly support programmatic activities.

The contractor shall develop, maintain, administer, and update official documents, templates, and file plans (e.g., organizational charts, employee recall information, and emergency file plans). The contractor shall maintain all Personal Identifiable Information (PII) in accordance with the Freedom of Information Act (FOIA) (5 U.S.C 552) and/or the Privacy Act of 1974 (5 U.S.C. 552a) ensuring the appropriate administrative, technical, and physical, safeguards are in place to protect and preserve the security and confidentiality of the information. The contractor shall conduct in-processing of all new personnel.

The contractor shall support RFS Customer-sponsored meetings, forums, working groups, planning sessions, IPTs, conferences, seminars, and boards. Meeting support shall include the following:

- a. Scheduling and coordinating meetings, group members and sites.
- b. Arranging and obtaining conference facilities.
- c. Drafting of agendas.
- d. Developing attendee rosters.
- e. Providing, drafting, developing, and/or distributing all relevant reference briefings, handouts, and documents.
- f. Distributing read-ahead material, back-up materials, historical records, and notes
- g. Securing audio visual/IT equipment.
- h. Coordinating and initiating communications requirements/requests to include video and teleconferences.
- i. Facilitating room configuration.
- j. Coordinating security requirements.
- k. Coordinating travel plans.
- l. Arranging and obtaining supplies.
- m. Recording, monitoring and tracking action items.
- n. Preparing and distributing meeting minutes.

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The contractor shall respond to inquiries; obtain, route, and relay information; coordinate and update schedules; coordinate site visits; and assist with travel and security documentation. The contractor shall monitor, track, identify and update supplies and equipment (e.g., computer hardware, software, office supplies, etc.). The contractor shall ensure an adequate level of supplies is maintained at all times. The contractor shall adhere to AF procurement policies to assist the Government POC in procuring supplies and equipment. The contractor shall research and identify the items, draft purchase order (PO) requests, obtain Government approval, and submit the orders to the Government Credit Card holder for purchase. The contractor shall track the purchase of the supplies and equipment and identify shipment, payment, or other discrepancies to the Government. The contractor shall assist in ensuring the procurement of the supplies are IAW AF and DoD procurement procedures, operations, regulations, and programs as identified in AFI 64-117 AF Government Wide Purchase Card (GPC). The contractor shall generate a resource status report documenting the status of the supplies and equipment from initial request through delivery/acceptance (see **Section F, Deliverable 31**) and include this information in the MSR (**Section F, Deliverable 7**).

### **C.4.5.2 SUBTASK 5.2 – PROVIDE M&S AWARENESS & CULTURALIZATION (A&C)**

The contractor shall provide M&S A&C support. The contractor shall assist in developing, maintaining and executing outreach and marketing strategies for AF LVC-OT to include targeted stakeholder engagements through the use of various media venues, M&S conference planning, M&S KM, and integration efforts with Joint and Service organizations.

The contractor shall conduct research and support M&S A&C efforts to enhance and accelerate AF LVC-OT transformation through education, activities, and partnerships. The contractor shall support in developing and maintaining relationships with DoD, Industry, Academia, Joint, and other services.

The contractor shall assist in developing and coordinating a variety of messages targeted towards specific current and emerging LVC-OT Stakeholders viewpoints. The contractor shall provide research and support to enhance and accelerate LVC-OT transformation through development of content for web-based applications, education of the LVC-OT community of current and emerging activities, and establishment of partnerships with identified Stakeholders. The preparation of a coordinated message aligned with Strategic Communications Plan will help to shape stakeholder engagements and maximize AF LVC-OT “brand” awareness.

The contractor shall participate and collaborate on M&S projects and initiatives with other public-sector, private-sector, academia, industrial, and Government organizations. The purpose of the participation is to promote widespread collaboration to satisfy common needs, lower development costs, influence COTS product development, establish a coordinated implementation process, pursue emerging network-based technologies, and create common standards that will enable reuse and interoperability of learning content.

#### **C.4.5.2.1 PROVIDE CONTENT MANAGEMENT**



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The contractor shall assist in the assimilation, development, drafting and publication of relevant AF LVC-OT news and articles across the AF Enterprise, DoD, coalition partners, industry, and academia. Articles shall be aligned to AF LVC-OT initiatives and associated with messaging materials to inform the LVC-OT community of potential solutions to Warfighter requirements and any updates to those initiatives.

The contractor shall assist in maintaining and updating the M&S KM site. The KM site acts as a medium to disseminate pertinent AF LVC-OT information in a coordinated fashion aligned with strategic outreach objectives.

The contractor shall prepare talking points, speeches, articles, briefings/presentations, web-based pages, and papers to assist in publicizing AF LVC-OT initiatives across the AF Enterprise, DoD, coalition partners, industry, and academia. In some cases, the contractor shall deliver these talking points, speeches, or briefing/presentations.

The contractor shall work through the appropriate Public Affairs channels to ensure materials are vetted appropriately and are releasable for external publication. The contractor shall maintain the press release database and all the related materials.

The contractor shall assist in planning, developing, and coordinating AF LVC-OT displays and participate in M&S trade shows and conventions. Audience participants include public representatives, senior leaders, and Congressional staffers. The contractor shall provide support to include the following:

- a. Creating and displaying marketing materials. The contractor shall create marketing materials focusing and aligning AF LVC-OT message delivery for display describing the mission and how it relates to the LVC-OT community and operations.
- b. Facilitating LVC-OT information to advance and educate AF and DoD personnel on current initiatives.
- c. Showcasing how various systems work and how LVC-OT can assist the operational AF in maintaining Readiness.
- d. Setting-up, operating, and dismantling demonstration equipment.
- e. Troubleshooting any problems.

The contractor shall attend and participate in DoD and AF M&S technical discussions, meetings, conferences, demonstrations, workshops, seminars, and other related forums among community stakeholders focused on LVC-OT programs and technologies. The contractor shall analyze the LVC-OT requirements and concepts being exchanged and identify and provide inputs on the information that impact AF LVC-OT strategies and planning. The contractor shall provide the Government with information, point, white, and/or decision papers discussing the results, findings, inputs, and impact of meeting decision outcomes, and provide input to the Government on courses of action to implement and/or mitigate changes that result from these decisions (**see Section F, Deliverable 19**).

### **C.4.5.2.2 PROVIDE CUSTOMER OUTREACH**

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The contractor shall assist in providing customer outreach by developing and coordinating a marketing strategy and message to engage current and emerging Stakeholders on AF LVC-OT. The contractor shall provide an assessment of the Stakeholders' preferred method of receiving message inputs and coordinate those findings with the Government Strategic Communications Plan. The contractor shall identify AF M&S opportunities for collaboration and synergy with other DoD M&S programs and initiatives. The contractor shall propose the most effective methodology for integrating AF LVC-OT concepts into collaborative initiatives for review and, upon final approval by the Government, the contractor shall prepare final execution plans.

The contractor shall research best practices and latest trends on publicizing the AF LVC-OT Story through M&S forums, conferences, and technical interchange meetings. The contractor shall support approximately eight M&S public relations events on a routine basis. Examples of the types of public relations events the contractor shall be required to support include the Interservice/Industry Training, Simulation and Education Conference (I/ITSEC), and the Air Force Association (AFA) Air Warfighter Symposium. The contractor shall assist the Government in providing the following in support of M&S public relations events:

- a. Coordinate technical subject matter experts, operational field advisors, and temporary promotional trade show personnel to assist in knowledge sharing activities during these public relations / trade show events.
- b. Set-up, man, and dismantle trade show booths. The contractor shall interact with trade show participants on mission or LVC/M&S in general.
- c. Display and rehearse M&S/LVC public relations materials.
- d. Coordinate approved M&S/LVC systems for presentations and demonstrations.
- e. Set-up information kiosk, pamphlets, and fliers on how various systems work and how LVC training can assist DoD.

The contractor shall assist in the Post Engagement Assessment to assist in mapping future engagements and identify materials necessary for those engagements.

### **C.4.5.3 SUBTASK 5.3 – PERFORM INFORMATION TECHNOLOGY (IT) SUPPORT SERVICES**

IT support services is integral to the accomplishment of programmatic activities outlined in the RFS areas. The contractor shall perform IT support services, which includes the operation, administration, design, installation, configuration, maintenance, and sustainment of IT Enterprise. The IT Enterprise is composed of end-user IT devices (e.g., laptops, desktops, tablets, mobile devices, phones, etc.), servers; routers, video teleconference (VTC) equipment, telecommunications, audio/visual (A/V) and phone systems, multimedia infrastructure, network facilities, and other IT-related peripherals to enable the Government to accomplish assigned missions. The contractor shall ensure reliable IT services are available for users, including Government employees and support contractors located on-site, and/or connected remotely off-site. The contractor shall provide IT support on a daily basis during normal operating hours, as identified in Section F.2, and on occasion outside of the identified hours.

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The contractor shall act as the intermediary between the end-user IT devices providing expert system administration, training, technical support, security, network management, and administrative control for all IT services. The contractor shall adhere to and ensure network and systems are in 100 percent compliance with all DoD, DISA, and AF, policies, security guidelines, instructions, directives, and updates in performing all IT services described in the below Subtasks (see **Section J, Attachment AB**).

### **C.4.5.3.1 PROVIDE HELPDESK SUPPORT**

The contractor shall provide on-site helpdesk support for the network, systems, and A/V infrastructure. On-site helpdesk support includes identifying, escalating, resolving and tracking problems in regards to desktops, the e-mail system, telecommunications, A/V infrastructure, systems, servers, routers, hardware/software, video VTC equipment, networks, and IT-related peripherals (e.g., printers, scanners, and mobile phones). The contractor shall provide helpdesk support at the unclassified NIPRNet and classified SIPRNet levels. Historically, the helpdesk receives approximately 200 calls or emails on a monthly basis.

The contractor shall provide helpdesk support to IT systems to include identifying, escalating, resolving, and tracking problems. The contractor shall provide helpdesk support to include the following:

- a. Identify, update, track, escalate, and resolve phone calls, emails, and all helpdesk inquiries. The contractor shall document all individual trouble calls and requests and resolutions to include the number of calls/emails/inquiries, average call resolution time, analyses/type of trouble calls, and unresolved trouble tickets.
- b. Identify and determine the severity of the problem for each trouble call.
- c. Assign and dispatch appropriate resources to solve problems identified; manage and track through resolution.
- d. Provide information, updates, and notifications on the status of systems (downtime and resolution) to the end-users.
- e. Contact manufacturers for software under warranty to streamline problem resolution.
- f. Analyze trouble call tickets to determine trends and preventive measures.
- g. Identify and troubleshoot system problems due to design and implementation constraints.
- h. Identify and implement work-around to resolve system problems.
- i. Hook-up, set-up, and establish network connections for computers, A/V infrastructures, and other IT.
- j. Provide technical assistance in response to users' questions, concerns, problems, and any related issues on both hardware and software. Questions may be submitted by via phone, email, or the internet.
- k. Troubleshoot software/hardware problems and perform corrective action to return the system/application/equipment to a useable state.
- l. Provide a summary status report (in spreadsheet format) of all hardware maintenance performed (see **Section F, Deliverable 32**) and include this information in the MSR (see **Section F, Deliverable 7**).

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The contractor shall collect and track helpdesk metrics. Contractor performance shall align with the IT metrics defined in the Quality Assurance Surveillance Plan (QASP) (**see Section J, Attachment AA**). The contractor shall provide helpdesk Trouble Call Status Reports (TCSRs) (**see Section F, Deliverable 33**) and include this information in the MSR (**see Section F, Deliverable 7**), documenting the following:

- a. Job Number
- b. Date/time reported
- c. Date/time resolved
- d. Requesting individual and directorate
- e. Number of calls
- f. Average call resolution time
- g. Analyses/type/action of trouble calls
- h. Unresolved trouble tickets

The contractor shall provide user training and/or training products on applications and software/hardware. The contractor shall plan and schedule training sessions to include conducting webinars, virtual online training sessions, web-based, classroom, Compact Disc- Read Only Memory (CD-ROM), or any combination thereof. The contractor shall post SOPs, training manuals, briefings, and user guides to support applications and software/hardware.

### **C.4.5.3.2 PROVIDE NETWORK MANAGEMENT SUPPORT**

The contractor shall provide effective, efficient, secure, and reliable network support. The contractor shall assist in the management and maintenance of classified and unclassified network enclave (NIPRNet, SIPRNet, and all associated networks) identified in **Section J, Attachment C**. These network enclaves shall also support connectivity to remote users and Virtual Private Networks (VPN).

The contractor shall monitor and control the network and servers, available bandwidth, hardware, and software. The contractor shall respond to and analyze detected incidents, network faults (errors), and user reported outages at the time of identification. The contractor shall document, record, report all network incidents, and identify any trends based on the Government's and contractor's analysis provided in the MSR (**see Section F, Deliverable 7**).

System availability and connectivity is critical to the day-to-day operations. It is desired that network operations and systems administration will maintain monthly 99.5 percent network/systems availability unless unusual circumstances beyond the contractor's control occur. **NOTE:** The TPOC will assess if a situation is beyond the contractor's control. The contractor shall monitor, maintain, and report monthly system availability, routing, bandwidth usage, traffic, connect time, transmission speeds, up-time and down-time, and any physical modifications to the network and system components in the MSR (**Section F, Deliverable 7**).

The contractor shall also perform the following network support on a daily basis:

- a. Develop, update, and maintain user and programmer maintenance manuals.

## SECTION C -- STATEMENT OF WORK

- b. Troubleshoot network systems and communications-related problems to include Transmission Control Protocol (TCP)/Internet Protocol (IP) stack, Dynamic Host Configuration Protocol (DHCP), and domain name system (DNS).
- c. Provide remote access support. Administer and manage secure remote access to allow users to work from remote locations to include VPN, dial up, modem, and laptop support.
- d. Manage network data storage and encrypt data when storing information to ensure data protection.
- e. Define access control based on assigned rights, use pre-defined roles, or create unique roles to ensure only authorized users have access to certain capabilities within the backup system.
- f. Maintain a visible log that tracks tape utilization, drive configurations, transaction, and error logs.
- g. Perform daily/weekly/monthly data and system backups during non-working hours.
- h. Maintain and/or troubleshoot the infrastructure wiring to identify defective wiring and/or components.
- i. Perform start up, power off, shut down, and power failure recovery procedures when required, including after-duty hour response to power loss or other emergency conditions to ensure system integrity of all network devices.
- j. Maintain all addressing schema for all IT infrastructure and devices connected to networks.
- k. Configure, maintain, and update Access Control Lists (ACLs) to grant/restrict network access to authorized users (**see Section F, Deliverable 34**) and include this information in the MSR (**see Section F, Deliverable 7**).
- l. Configure end-user IT devices (e.g., desktop systems) utilizing the DHCP.

The contractor shall work Air Force Network Integration Center (AFNIC) to obtain validation, review, and resolve any issues conflicting with AF network policies.

### **C.4.5.3.3 PROVIDE SYSTEM ADMINISTRATION SUPPORT**

The contractor shall provide daily system administration support for systems and networks. Daily system administration support includes technical administration, business continuity and disaster recovery, messaging, database administration, and server hosting services.

The Government's IT environment is composed of network devices, desktop computers, laptops, printers, scanners, routers, switches and many other IT associated tools supporting network infrastructure. The contractor shall conduct and provide daily technical administrative services through day-to-day operations, trouble-shooting, transitions, installations, maintenance, conversions, cutovers and sustainment of all IT components. The contractor shall configure, operate, and maintain network management systems and provide routine backup of such systems to include server hardware, operating systems, and applications during non-working hours. The contractor shall encrypt data when storing data in accordance with AF directives and instructions.

The contractor shall be responsible for collecting and archiving the data necessary to conduct detailed infrastructure mapping and analysis, producing time-sensitive displays and threshold alerts, and developing course of action scenarios. The contractor shall ensure event logs and backup media are retained in the Network Control Center (NCC) vault for a period of one year.

## SECTION C -- STATEMENT OF WORK

The last quarterly disaster backup of the calendar year shall be retained for three years. The contractor shall not erase, delete, or modify any event log. This shall ensure that if a server event occurs it is traceable to the time and person creating the event. **NOTE:** Movement to archive is not considered erasure or deletion. The contractor shall maintain and update a network back-up recovery plan. The back-up recovery plan is part of the Government's overall Continuity of Operations Plan (COOP) and shall include a listing of required equipment, timelines, and training.

The contractor shall provide Business Continuity and Disaster Recovery Services. The contractor shall maintain and update a Disaster Recovery Plan (DRP)/COOP (**see Section F, Deliverable 35**). The DRP documents a comprehensive recovery process, which includes planning, prevention, preparation, annual testing, and training throughout the lifetime of applications or systems. The DRP shall be based on a remote hosting provider with transaction logging to enable rapid recovery in the event of a failure. The contractor shall execute emergency recovery plans during major server crashes ensuring minimal server disruption.

The contractor shall provide messaging services to support email and other interpersonal communications computing infrastructure. Messaging services are defined as all activities associated with the provision of software in support of a messaging environment and capable of connecting to end-users directly via LAN, through the Internet, or via wireless connectivity.

The contractor shall perform the following system administration support to include the following:

- a. Maintain an up-to-date listing of user accounts, e-mail accounts, passwords, mailboxes, global address list, software licenses, systems file and other network directories, file access rights, and system/network accreditation documentation (**Section F, Deliverable 36**).
- b. Administer and manage email accounts/groups and permissions and modify email groups in accordance with organizational changes.
- c. Administer and monitor password changes in accordance with AF security regulations.
- d. Create, allocate, monitor, and restore data files and space.
- e. Maintain and monitor standardized file storage directory structures.
- f. Operate, trouble-shoot, and repair server software malfunctions.
- g. Operate, maintain, and trouble-shoot video teleconferencing hardware and software.
- h. Develop and post system notifications/announcements.
- i. Operate, trouble-shoot, and repair system software malfunctions and any operating system problems.
- j. Perform system updates.
- k. Facilitate data integration and migration.
- l. Update and maintain code for existing platform and services.
- m. Perform data analysis.
- n. Implement and sustain interfaces with systems of record.
- o. Track users.
- p. Perform system testing.
- q. Manage internet and intranet web servers and remote access security services.
- r. Establish, maintain, and monitor print servers.

## SECTION C -- STATEMENT OF WORK

- s. Monitor and review server logs on a daily basis. The contractor shall maintain an automated server event log monitoring and archive the system for a full set of logs on all servers.
- t. Maintain documentation, manuals, and guides related to application operations.
- u. Analyze problem reports and change requests, and identify/correct routine system problems.
- v. Coordinate work requests with other Government organizations for communication modifications in support of organizational changes.

### **C.4.5.3.4 PROVIDE CONFIGURATION MANAGEMENT (CM) SUPPORT**

The contractor shall support the installation and configuration of IT Enterprise. The contractor shall maintain and update the current IT Enterprise Architecture (EA) and configuration designs for each network enclave of IT Enterprise (**see Section F, Deliverable 37**).

The contractor shall maintain and update CM control of the following documents: Configuration Management Plan, Risk Management Plan, Vulnerability Management Plan, Patch Management Plan, Incident Response Plan, COOP, and DRP.

The contractor shall be responsible for configuration change control, status accounting, and audits. The contractor shall submit recommended changes based on its analysis and findings to the TPOC for review and approval. The contractor shall adhere to a configuration management process through a Configuration Change Board (CCB). The CCB will be chaired by Government Representative who will enforce current operational policies to maintain baseline (hardware and software deployed on the network) and to evaluate and approve proposed changes. The contractor shall evaluate, implement, and configure hardware and software and ensure required AF and DoD IA accreditations and policies are met, enforced, and safeguards are active.

### **C.4.5.3.5 PROVIDE NETWORK AND SYSTEM SECURITY**

The contractor shall be responsible for maintaining extensive security protection of IT Enterprise including all data. The contractor shall serve as the POC for IT infrastructure security and related issues.

The contractor shall conduct and maintain active security vulnerability assessments, implementations, and monitoring of all computer systems and network infrastructure. The contractor shall prevent the threat of network intrusion by proactively probing network defenses to identify vulnerabilities to include administering network scans in accordance with AF policy. The contractor shall respond and document all network incidents. This includes customer initiated incidents, external intrusion in systems, and security and informational requests that result from proactive network monitoring. These network incidents shall be resolved in accordance with AF policy as well as documented in the MSR (**see Section F, Deliverable 7**). The contractor shall implement applicable solutions in accordance with Government guidance.

The contractor shall update servers as new security vulnerabilities are released, periodically re-scan servers to ensure the latest security updates are enforced, ensure Information Assurance

## SECTION C -- STATEMENT OF WORK

Vulnerability Alert (IAVA) and Tactical Computer Network Operator (TCNO) compliancy, and provide real-time protection from any threats of active files using anti-virus tools. The contractor shall follow and coordinate with the AF and DoD IA on policies and processes to provide day-to-day operational support to protect the integrity and availability of network resources.

The contractor shall support all AF IA guidance to include AFI 33-200, Information Assurance Management. The contractor shall provide the following support:

- a. Ensure personnel receive Information Assurance Awareness Program (IAAP) training IAW AF guidance.
- b. Support the development, implementation, and maintenance of the DoDI 8510.01, RMF for DoD Networks.
- c. Ensure STIGs are applied to all applicable IT network equipment.
- d. Maintain currency of information in the Enterprise Mission Assurance Support Service (eMASS) for all networks, test IA controls annually, and validate continued IA controls compliance.
- e. Maintain System Security Accreditation Agreement (SSAA) packages (including all appendices) and supporting coordination documents for the RFS Customer network environment. The contractor shall update the SSAA in response to any CCB-approved hardware/software changes; AF certifications (AFCERT), TCNO, or approved changes; or as required to maintain DAA approval.

The contractor shall stay engaged and participate in the IAO Forum sponsored by the DISA Enterprise Service Desk (ESD) to enhance communications amongst IAOs. The Direct Connect Online (DCO)-based forum is scheduled annually at four different times to accommodate IAOs from around the world. This forum will advertise new and upcoming automation tools to service Air Force Information Network (AFIN) accounts. It also serves as a venue to pass information directly to IAOs to help formulate fundamental processes and procedures.

The contractor shall provide Communications Security (COMSEC) support. The contractor shall establish and maintain a COMSEC Local Element account under the Government's main account and shall serve as both COMSEC Responsible Officer (CRO) and Secure Voice Responsible Office (SVRO) if required. The contractor shall manage, monitor, and track COMSEC equipment and keying material. The contractor shall track, maintain, and obtain Government approval to dispose of classified materials, in accordance with DoD standards and regulations. The contractor shall update and maintain appropriate processing checklists to ensure all security regulations are met IAW AFMAN 33-283 Communications Security (COMSEC) Operations. The contractor shall document receipt, custody, issuance, transmittal, storage, accountability, classification, and destruction of all Classified Material. The contractor shall maintain logs and journals to comply with AF security, regulatory, and policy guidelines. The contractor shall maintain an inventory of all classified media and documentation stored in the SPA.

### **C.4.5.3.6 PERFORM WEBSITE SUPPORT**



## SECTION C -- STATEMENT OF WORK

The contractor shall install, maintain, host, and update websites. The contractor shall be responsible for the overall technical administration of internet and intranet websites. The contractor shall perform website support to include the following:

- a. Administer website user accounts including adding new users, changing roles, terminating users, and advising users of re-certification requirements.
- b. System maintenance, security scans, and security procedures.
- c. Analyze, develop, implement, maintain, document, and modify web-based applications.
- d. Continually evaluate and track website traffic.
- e. Encode, debug, and test web software applications to meet established operational and system requirements.
- f. Dynamically generate web-based-formatted Web Analysis Reports on utilization, traffic, and broken links. The contractor shall provide a summary of website hosting problems encountered in the MSR (**see Section F, Deliverable 7**).

### **C.4.5.3.7 PROVIDE MAINTENANCE, REPAIR AND OPERATIONS (MRO) SUPPORT**

The contractor shall provide MRO support to IT Enterprise to include standard software upgrades, repairs, replacement, installation, equipment troubleshooting, maintenance, and preventative maintenance for any of its components and/or sub-components. The contractor shall apply quality assurance principles and techniques as part of the MRO support.

The contractor shall conduct periodic maintenance; intervals are performed routinely. The contractor shall analyze and investigate any adverse quality trends or conditions and initiate any corrective actions to maintain quality and provide sustainment support to the product.

If the contractor finds any network equipment defective that cannot be repaired, the contractor shall notify the TPOC within one hour from the time the equipment is determined to be non-repairable. The contractor shall notify the Government of all necessary required changes, additions, or removals from the existing system and obtain Government concurrence before any changes, additions, or removals are performed. The contractor shall perform cost and benefit analysis and provide inputs to the Government for upgrades, replacement, repairs, changes, additions, and removal of parts to any component of sub-component of the IT Enterprise. The contractor shall document all repairs, changes, additions, or removals in the MSR (**see Section F, Deliverable 7**).

### **C.4.5.3.8 PERFORM IT ASSET MANAGEMENT**

The contractor shall perform IT asset management. The contractor shall be responsible for the tracking, receiving, distributing, maintaining, and accounting for hardware and software inventory. **NOTE:** IT asset management support is similar to an IT Equipment Custodian (EC) in accordance with AF guidance. The contractor shall be responsible for performing IT asset management support to include the following:

- a. Track, maintain, and update a complete inventory of all current software and hardware products (**see Section J, Attachment K**).

## SECTION C -- STATEMENT OF WORK

- b. Maintain and update an ADPE Tracking Report for the ADPE program which tracks and manages IT assets.
- c. Maintain current software license renewals.
- d. Label all accountable equipment using AF Form 992 ADPE Identification or the appropriate equivalent.
- e. Participate in AF Inspector General (IG) audits biannually
- f. Assist with equipment disposal/sanitation procedures and activities. All equipment shall be disposed of in accordance with AF guidance.
- g. Document and submit a Report of Survey to the appropriate AF Logistics Office if any accountable items are lost or damaged.
- h. Coordinate with third-party software/hardware vendors supporting Government maintenance requirements.

The contractor shall monitor, manage, research and provide inputs the following for the Government to purchase:

- a. Replacement of IT consumables (e.g., printer cartridges, storage media, printer paper, etc.). The contractor shall manage inventory, storage, and disposal of IT consumables in accordance with DRMO policy.
- b. Required software from Government-approved sources for all applicable AFCERTs, TCNOs, Special Interests (SIs) and related items.
- c. Additional hardware and software tools which could improve the systems.

The contractor shall conduct market research, product reviews, prepare source lists from approved contract vehicles for product inputs, and prepare cost estimates for all products recommended for Government purchase. The contractor shall analyze, present findings, and inputs to the TPOC as part of the MSR (**see Section F, Deliverable 7**).

### **C.4.5.3.9 PROVIDE TELECOMMUNICATIONS AND MULTIMEDIA SUPPORT**

The contractor shall operate and administer current and emerging telecommunications and multimedia to include the following:

- a. Maintain and update all Secure Telephone Equipment (STE), records, and self-inspection programs concerning classified material.
- b. Provide day-to-day technical administration and management of phone system and fax services.
- c. Distribute, configure, and track Government-procured telephone handsets to all personnel.
- d. Provide end-user training for telephone devices, voice-mail configuration, and all other phone system operations and equipment features.
- e. Maintain a telephone Directory Listing Services.
- f. Perform scheduled and non-scheduled maintenance, coordinate repair actions, and verify telecommunications circuits are active and available for use.
- g. Monitor the performance of telephone sets, voicemail systems, modems, fiber optic cables, telephone switching units, and data circuits.

## SECTION C -- STATEMENT OF WORK

- h. Schedule, coordinate, setup, and facilitate single-point and multi-point VTCs. All VTCs will be scheduled through helpdesk support or the conference room reservation system.
- i. Setup and operate microcomputer systems, wide-angle cameras, microphones, overhead projection systems, and software applications to support meetings and events.

The contractor shall provide graphics support. The contractor shall assist in preparing and developing graphics to support presentations, briefings, and events. Contractor support shall include developing, reproducing, and editing multi-media materials to include still photos, linear video, computer-generated images and graphics, audio tracks, and text.

### **C.4.5.3.10 PROVIDE IT FACILITY INFRASTRUCTURE MANAGEMENT**

The contractor shall provide IT facility infrastructure management at the Government's location. The contractor shall serve as the POC for the IT infrastructure and network facility. IT facility infrastructure management includes preventive maintenance, repair, alterations, and equipment installation of IT areas to sustain safe and reliable operations. The contractor shall inspect and evaluate structures of any rooms that contain computer processors, IT equipment, and wiring/cables. The contractor shall assist the Government in the planning, estimating, and justifying of repairs, alterations, and equipment installation of IT facilities/area. The contractor shall prioritize all actions by immediate need and dollar value.

The contractor shall update and maintain an internal existing program that complies with regulatory requirements to manage risks associated with physical security (e.g., fire, hazardous materials, and waste), and establish and implement facility emergency response plans to safeguard the IT facility infrastructure.

Specifically, the contractor shall operate and manage the Network Control Centre (NCC), SPA, and Common Work Space (CWS) work areas and similar systems as required to sustain IT operations. The contractor shall monitor all environmental conditions in the NCC, SPA, and CWS to ensure proper humidity, temperature, and safety. The contractor shall monitor, respond to, and alert the Government of any issues relating to the failure of heating/cooling units. The contractor shall ensure that the NCC, SPA, and CWS are kept in an orderly and clean condition, and not used for storage of unrelated materials. The contractor shall maintain the physical security of the NCC and SPA IAW AFI 33-115 V1, NETOPS, and all governing AF guidance with oversight to the NCC, SPA, and CWS.

The contractor shall establish, update, provide, and facilitate guidance to establish security procedures for the protection and safeguard of the network facility and IT property in preparing for a disaster response. Security procedures shall include sustaining operations, safeguarding the workforce, identifying and practicing strategies, and associated timelines. The contractor shall develop and maintain measures that prevent or deter intrusions from unauthorized parties from accessing the network facility, resources, or information and ensure proper safeguarding measures are being observed.

## SECTION C -- STATEMENT OF WORK

The contractor shall assist by performing IT-related physical security activities such as drafting visitor requests; developing, obtaining, and maintaining of National Security Check documentation; and administrating the automated access control system and security cameras.

### **C.4.5.3.11 PROVIDE IT TRANSFORMATION SUPPORT**

The contractor shall provide IT expertise and advice to on IT initiatives. The contractor shall assist in the review, planning, research, implementation, and coordination of a wide range of IT management activities including strategic and system capacity planning, policy and standards development, resource management, knowledge management, architecture and infrastructure planning and management, resource scheduling, cost analysis, auditing, information security management, VTC, and helpdesk services.

The contractor shall attend, participate in, and support IT-related meetings as identified by the TPOC to provide advisory support on matters pertaining to IT technical requirements in support of the mission to the broader AF M&S Community. The contractor shall also attend task-related exercises/events, meetings, technical discussions, and review and collect and disseminate information.

On an annual basis, the contractor shall conduct a web server utilization study as well as complete each of the DISA Enterprise Information Services (EIS) - Service Request Forms (SRFs): Server Hosting, GCDS, System Network Availability Performance Service (SyNAPS), DoD Enterprise Portal Services, and DoD Enterprise Email for DOD Enterprise Portal Services (**see Section F, Deliverable 38**). The contractor, on an annual basis, shall provide inputs on the feasibility of updating the current IT Enterprise and its subcomponents (**see Section F, Deliverable 39**). The contractor shall research Joint Information Environment (JIE) Broker Services and provide plans for transferring processing capabilities to the closest JIE Information Processing Network (IPN).

The contractor shall rapidly respond to all actions required by AFCERTs, TCNOs, SIs, and any related items regarding network and infrastructure. The contractor shall expeditiously draft responses and reports for Government review and approval in order to meet mandatory implementation deadlines on highly visible senior management IT initiatives.

## SECTION D - PACKAGING AND MARKING

NOTE: The Section numbers in this TO correspond to the Section numbers in the OASIS UNRESTRICTED Contract (POOL 1).

Packaging and marking of all deliverables must conform to normal industry packing standards to assure safe delivery at destination.

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text.

<u>252.245-7001</u>	Tagging, Labeling, and Marking of Government-Furnished Property	(Apr 2012)
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## SECTION E - INSPECTION AND ACCEPTANCE

NOTE: The Section numbers in this TO correspond to the Section numbers in the OASIS UNRESTRICTED Contract (POOL 1).

### **E.2 PLACE OF INSPECTION AND ACCEPTANCE**

Inspection and acceptance of all work performance, reports, and other deliverables under this TO shall be performed by FEDSIM COR. The client Technical Point of Contact (TPOC) at Wright Patterson AFB, Ohio with the assistance of the RFS customer input shall conduct inspections of all work performance, reports, and other deliverables under this TO and provide the COR with technical input. The FEDSIM COR will also use the information obtained from the RFS technical leads to assess contractor work performance reports, and other deliverables under this TO.

### **E.3 SCOPE OF INSPECTION**

All deliverables will be inspected for content, completeness, accuracy, and conformance to TO requirements by the FEDSIM COR. Inspection may include validation of information or software through the use of automated tools, testing, or inspections of the deliverables, as specified in the TO. The scope and nature of this inspection will be sufficiently comprehensive to ensure the completeness, quality, and adequacy of all deliverables. The Government requires a period NTE 15 workdays after receipt of final deliverable items for inspection and acceptance or rejection.

### **E.4 BASIS OF ACCEPTANCE**

The basis for acceptance shall be compliance with the requirements set forth in the TO, the contractor's proposal, and relevant terms and conditions of the contract. Deliverable items rejected shall be corrected in accordance with the applicable clauses.

Reports, documents, and narrative-type deliverables will be accepted when all discrepancies, errors, or other deficiencies identified in writing by the Government have been corrected.

If the draft deliverable is adequate, the Government may accept the draft and provide comments for incorporation into the final version.

All of the Government's comments on deliverables must either be incorporated in the succeeding version of the deliverable, or the contractor must demonstrate to the Government's satisfaction why such comments should not be incorporated.

If the Government finds that a draft or final deliverable contains spelling errors, grammatical errors, or improper format, or otherwise does not conform to the requirements stated within this TO, the document may be immediately rejected without further review and returned to the contractor for correction and resubmission. If the contractor requires additional Government guidance to produce an acceptable draft, the contractor shall arrange a meeting with the FEDSIM COR.

### **E.5 DRAFT DELIVERABLES**

OASIS Contract GS00Q14OADU109  
Task Order GSQ0015AJ0056  
MOD PS32

## SECTION E - INSPECTION AND ACCEPTANCE

The Government will provide written acceptance, comments, and/or change requests, if any, within 15 workdays (unless specified otherwise in Section F) from Government receipt of the draft deliverable. Upon receipt of the Government's comments, the contractor shall have ten workdays to incorporate the Government's comments and/or change requests and to resubmit the deliverable in its final form.

### **E.6 WRITTEN ACCEPTANCE/REJECTION BY THE GOVERNMENT**

The FEDSIM CO/COR will provide written notification of acceptance or rejection (**see Section J, ATTACHMENT L**) of all final deliverables within 15 workdays (unless specified otherwise in Section F). All notifications of rejection will be accompanied with an explanation of the specific deficiencies causing the rejection.

### **E.7 NON-CONFORMING PRODUCTS OR SERVICES**

Non-conforming products or services will be rejected. Deficiencies will be corrected, by the contractor, within ten workdays of the rejection notice. If the deficiencies cannot be corrected within ten workdays, the contractor shall immediately notify the FEDSIM COR of the reason for the delay and provide a proposed corrective action plan within ten workdays.

If the contractor does not provide products or services that conform to the requirements of this TO, the Government will not pay the fixed price associated with the non-conforming products or services.

## SECTION F – DELIVERABLES OR PERFORMANCE

NOTE: The Section numbers in this TO correspond to the Section numbers in the OASIS UNRESTRICTED Contract (POOL 1).

### **F.1 DELIVERIES OR PERFORMANCE CLAUSES**

Clauses regarding deliveries or performance for OASIS:

<b>FAR</b>	<b>TITLE</b>	<b>DATE</b>
52.227-17	Rights in Data – Special Works	DEC 2007
52.242-15	Stop Work Order	AUG 1989
52.247-34	F.O.B. Destination	NOV 1991

### **F.2 PLACE OF PERFORMANCE**

Place of Performance is primarily in as designated by the RFS, with work performed at the following locations:

- a. Eglin Air Force Base (AFB) in Florida
- b. Hickam AFB in Hawaii
- c. Joint Staff Suffolk Complex in Virginia
- d. Kirkland AFB in New Mexico
- e. Lackland AFB in Texas
- f. Langley AFB in Virginia
- g. Nellis AFB in Nevada
- h. Offutt AFB in Nebraska
- i. The Pentagon in Virginia
- j. Randolph AFB in Texas
- k. Scott AFB in Illinois
- l. Tyndall AFB in Florida
- m. Wright-Patterson AFB in Ohio
- n. Hurlburt AFB in Florida
- o. Norfolk Naval Station in Virginia\*
- p. Orlando Florida
- q. Des Moines International Airport, Iowa
- r. Kaiserslautern Military Community, Germany (Ramstein – Einsiedlerhof)
- s. NSA/CSS San Antonio, Texas
- t. Contractor Site(s);
- u. Other locations as required.

\* The Navy SCI Contract Manager for RFS tasks managed by Navy Information Forces (NAVIFOR) and executed in Navy Information Operations Command-Norfolk (NIOC-N) facilities is: Mr. Earl A. Wooten, Navy Information Operations Command, 1247 West C Street, Norfolk, Virginia 23511, 757-417-7121, earl.a.wooten@navy.mil. All work is accomplished under the existing DD254.

The specific addresses of the places of performance will be provided after award. Long-distance travel to both CONUS and OCONUS locations is expected on a monthly basis.



## SECTION F – DELIVERABLES OR PERFORMANCE

The contractor shall provide support to the above locations during normal operating hours from 0700 to 1700 on a daily basis, five (5) days a week (Monday through Friday).

### **F.3 PERIOD OF PERFORMANCE**

Base Period: June 7<sup>th</sup>, 2015 through June 6<sup>th</sup>, 2016  
Option Period 1: June 7<sup>th</sup>, 2016 through June 6<sup>th</sup>, 2017  
Option Period 2: June 7<sup>th</sup>, 2017 through June 6<sup>th</sup>, 2018  
Option Period 3: June 7<sup>th</sup>, 2018 through June 6<sup>th</sup>, 2019  
Option Period 4: June 7<sup>th</sup>, 2019 through June 6<sup>th</sup>, 2020

The Government anticipates the Task Order Start (TOS) to be no earlier than 10 calendar days after Task Order Award (TOA).

### **F.4 PERFORMANCE STANDARDS**

#### **F.4.1 DELIVERABLE AND REPORTING REQUIREMENTS**

The following schedule of milestones will be used by the FEDSIM COR to monitor timely progress under this TO. The following abbreviations are used in this schedule:

- a. NLT: No Later Than
- b. TOA: Task Order Award
- c. TOS: Task Order Start
- d. All references to Days: Government Workdays
- e. Deliverables are due the next Government workday if the due date falls on a holiday or weekend.

The data rights provisions in FAR 52.227-17 apply to all deliverables in the below table that have an asterisk (i.e., \*) in the FAR 52.227-17 column.

The contractor shall submit the deliverables listed in the following table:

#	DELIVERABLE	FAR 52.227-17	TOR REFERENCE	PLANNED COMPLETION DATE
1	Kick-Off Meeting		C.4.1.1	NLT 10 days of TOA and NLT 10 days before the start of Option Year 1
2	Kick-Off Meeting Agenda & Presentation		C.4.1.1	NLT 2 days before Kick-Off Meeting NLT 15 days before the start of Option Year 1
3	Transition-In Plan (FINAL)		C.4.1.1 C.4.1.3 C.4.1.3.1	NLT 10 calendar days after TOA
4	Quality Control Plan (QCP) (FINAL)		C.4.1.1 C.4.1.6.5	At Kick-Off Meeting and within 5 days of

SECTION F – DELIVERABLES OR PERFORMANCE

				significant management/process changes
5	Draft & Final Project Management Plan (PMP)		C.4.1.2 C.4.1.2.1	NLT 5 days after TOS and NLT 5 days after receiving Government comments. At minimum on an annual basis or within 5 days of significant management/process changes.
6	Transition-Out Plan		C.4.1.4	NLT 120 calendar days prior to end of the Base Period and updated NLT 120 calendar days prior to the end of each contract year
7	Monthly Status Report (MSR)		C.4.1.5.1 C.4.3.1.3 C.4.3.3.1 C.4.3.7.2 C.4.5.1 C.4.5.3.1 C.4.5.3.2 C.4.5.3.5 C.4.5.3.6 C.4.5.3.7 C.4.5.3.8	Monthly (NLT the 7th day of each month)
7A	MSR – Financial Addendum		C.4.1.5.1	Monthly (NLT the 7th day of each month)
8	Trip Report		C.4.1.5.2	NLT <b>5</b> days after a trip is completed
9	Meeting Reports		C.4.1.5.4 C.4.1.6.1 C.4.1.6.2 C.4.1.6.4 C.4.2.3 C.4.3.1.1 C.4.3.7	NLT 2 days after meeting

SECTION F – DELIVERABLES OR PERFORMANCE

			C.4.3.17	
10	REMOVED			
11	Teleconferences		C.4.1.6.1	Upon Government request
12	REMOVED			
13	Project Management Review (PMR)		C.4.1.6.3	Quarterly
14	REMOVED			
15	Situation Reports (SITREPS)	*	C.4.2.1.1 C.4.2.3	NLT 2 days after meeting
16	Model Deficiency Report	*	C.4.2.1.2 C.4.2.1.3	NLT MPC or prior to start time of the exercise/event
17	After Action Report (AAR)	*	C.4.2.1.4 C.4.2.3 C.4.2.3.1.10 C.4.2.3.1.12 C.4.2.5 C.4.3.9.1 C.4.3.9.2	NLT 5 days after Exercise/Event or Government request
18	Lessons Learned	*	C.4.2.1.4 C.4.2.3.1.10 C.4.3.7.2 C.4.3.9.1 C.4.3.9.2	NLT 5 business days after Exercise/Event or Government request
19	Information, Point, White, Decision, Bullet Background Papers, Briefing and Reports	*	C.4.2.3 C.4.2.3.1 C.4.3.7.2 C.4.3.13.1 C.4.5.2.1	NLT 3 days after submission of request
20	REMOVED			
21	Model Program Management Review (Model PMR) Documentation	*	C.4.3.1.1	NLT 15 days before the Model Program Management Review
22	User's Guides and Manuals	*	C.4.3.1.1.1	Yearly
23	Responsible Testing Organization Requirements	*	C.4.3.1.2	NLT 3 days after requirement has been identified by the Government
24	Self-Healing IT CONOPS Plan	*	C.4.3.7.1	NLT 60 days after requested
25	Annual Security Reviews Report	*	C.4.3.7.2	Yearly NLT 90 days after the TOA start date

SECTION F – DELIVERABLES OR PERFORMANCE

				and NLT 90days after exercise of each contract year
26	Assessment of Resources	*	C.4.3.9	NLT 10 days after Government request
27	M&S Courseware – Course	*	C.4.3.15	NLT 120 days after Government request
28	Instructional Design Course Development	*	C.4.3.17	NLT 120 days after Government request
29	M&S Technical Strategy, Analysis Papers, Findings, Impacts, Plans, and Recommendations	*	C.4.4.1	NLT 5 days after submission of request
30	Operational Field Studies and Evaluate Alternatives	*	C.4.4.2.1	NLT 3 days after request was submitted
31	Resource Status	*	C.4.5.1	NLT 10 days after Government request
32	Status Report of Hardware Maintenance	*	C.4.5.3.1	NLT 10 days after Government request
33	Trouble Call Status Reports (TCSRs)	*	C.4.5.3.1	NLT 10 days after Government request
34	Access Control Lists	*	C.4.5.3.2	NLT 10 days after Government request
35	Disaster Recovery Plan (DRP)/ Continuity of Operations Plan (COOP)	*	C.4.5.3.3	NLT 10 days after Government request
36	System/Network Accreditation Documentation	*	C.4.5.3.3	NLT 10 days after Government request
37	IT EA and Configuration Designs	*	C.4.5.3.4	NLT 10 days after Government request
38	DISA Enterprise Information Services (EIS) - Service Request Forms (SRFs) - Server Hosting, GCDS, SyNAPS, DoD Enterprise Portal Services, DoD Enterprise Email for DOD Enterprise Portal Services	*	C.4.5.3.11	NLT 60 days after TOA and 90 days after each exercised contract year
39	IT Enterprise	*	C.4.5.3.11	NLT 90 days after each exercised contract year
40	Trip Report Tracker		C.4.1.5.2	NLT 10 days after each Period of Performance end date

## **F.5 PUBLIC RELEASE OF CONTRACT DOCUMENTS REQUIREMENT**

The contractor agrees to submit, within ten workdays from the date of the FEDSIM CO's execution of the initial TO, or any modification to the TO (exclusive of Saturdays, Sundays, and Federal holidays), a portable document format (PDF) file of the fully executed document with all proposed necessary redactions, including redactions of any trade secrets or any commercial or financial information that it believes to be privileged or confidential business information, for the purpose of public disclosure at the sole discretion of GSA. The contractor agrees to provide a detailed written statement specifying the basis for each of its proposed redactions, including the applicable exemption under the FOIA, 5 U.S.C. § 552, and, in the case of FOIA Exemption 4, 5 U.S.C. § 552(b)(4), shall demonstrate why the information is considered to be a trade secret or commercial or financial information that is privileged or confidential. Information provided by the contractor in response to the contract requirement may itself be subject to disclosure under the FOIA. Submission of the proposed redactions constitutes concurrence of release under FOIA.

GSA will carefully consider all of the contractor's proposed redactions and associated grounds for nondisclosure prior to making a final determination as to what information in such executed documents may be properly withheld.

## **F.6 DELIVERABLES MEDIA**

The contractor shall deliver all electronic versions by email. Upon request by the Government, the contractor shall deliver deliverable(s) by removable electronic media. The following are the required electronic formats, whose versions must be compatible with the latest, commonly available version on the market.

Text	MS Word
Spreadsheets	MS Excel
Briefings	MS PowerPoint
Drawings	MS Visio or MS PowerPoint
Schedules	MS Project

For deliverables over 10MB, the contractor shall deliver the deliverable as a PDF file to reduce file size.

## **F.7 PLACE(S) OF DELIVERY**

All unclassified deliverables and correspondence shall be delivered to the FEDSIM COR at the following address:

GSA FAS AAS FEDSIM  
ATTN: Jessica Cassidy, FEDSIM COR  
1800 F Street, NW  
Suite 3100 (QF0B)  
Washington, D.C. 20405  
Telephone: (202) 969-7962

## SECTION F – DELIVERABLES OR PERFORMANCE

Email: [jessica.cassidy@gsa.gov](mailto:jessica.cassidy@gsa.gov)

Alternate Contracting Officer's Representative:

Lacresha Fikes GSA FAS AAS FEDSIM

1800 F Street, NW

Suite 3100 (QF0B)

Washington, D.C. 20405

Telephone: (202) 208-1348

Email: [lacresha.fikes@gsa.gov](mailto:lacresha.fikes@gsa.gov)

Copies of all deliverables shall also be delivered to the TPOC at the following address:

TPOC:

John Carr

AFLCMC/WNS

2300 D. Street, Bldg 32

Wright Patterson AFB, OH

Telephone: (937) 255-7408

Email: [John.Carr.2@us.af.mil](mailto:John.Carr.2@us.af.mil)

In addition, copies of RFS deliverables shall be delivered to the Technical Leads. Information pertaining to the Technical Lead POC and delivery instructions shall be detailed in the RFS.

### **F.8 NOTICE REGARDING LATE DELIVERY/PROBLEM NOTIFICATION REPORT (PNR)**

The contractor shall notify the FEDSIM COR via a Problem Notification Report (PNR) (**see Section J, Attachment F**) as soon as it becomes apparent to the contractor, that a scheduled delivery will be late or a cost overrun will occur. The Contractor shall include in the PNR the rationale for a late delivery or cost overrun, the expected mitigation strategy, and overall project impact. The FEDSIM COR will review the PNR and provide guidance to the contractor. Such notification in no way limits any Government contractual rights or remedies including but not limited to termination.

## SECTION G – CONTRACT ADMINISTRATION DATA

NOTE: The Section numbers in this TO correspond to the Section numbers in the OASIS UNRESTRICTED Contract (POOL 1).

### **G.2 ROLES AND RESPONSIBILITIES OF KEY GOVERNMENT PERSONNEL**

#### **G.2.5 ORDERING CONTRACTING OFFICER (OCO)**

##### **G.2.5.1 CONTRACTING OFFICER’S REPRESENTATIVE (COR)**

The CO will appoint a COR in writing through a COR Appointment Letter that will be provided to the contractor upon award (see **Section J, Attachment M**). The COR will receive, for the Government, all work called for by the TO and will represent the CO in the technical phases of the work. The COR will provide no supervisory or instructional assistance to contractor personnel. The COR is not authorized to change any of the terms and conditions, scope, schedule, and price of the Contract or the TO. Changes in the scope of work will be made only by the CO by properly executed modifications to the Contract or the TO.

### **G.3. CONTRACTOR ADMINISTRATION REQUIREMENTS**

#### **G.3.1 CONTRACTOR ACCESS FEE (CAF)**

The GSA operating costs associated with the management and administration of the OASIS contract are recovered through a CAF. The amount of CAF is 0.1% (0.001) of the total price/cost of the TO contractor.

#### **G.3.4 CONTRACTOR PERFORMANCE ASSESSMENT REPORTING SYSTEM (CPARS)**

##### **G.3.4.2 TASK ORDER CPARS**

TO performance will be evaluated and captured through the CPARS module (located at <https://www.cpars.gov/>). At a minimum, TO performance will be evaluated by GSA FEDSIM on a yearly basis and upon TO completion. Evaluations of contractor performance will be provided to the contractor as soon as practicable after completion of the evaluation. Contractors will be given a minimum of 30 days to submit comments, rebutting statements, or additional information.

Copies of the evaluations, contractor responses, and review comments, if any, will be retained as part of the TO file, and may be used by Federal agencies to support future award decisions.

#### **G.3.11 CONTRACT ADMINISTRATION**

##### Contracting Officer (CO):

Denise VonDibert

GSA FAS AAS FEDSIM

1800 F Street, NW

Suite 3100 (QF0B)

Washington, D.C. 20405

Telephone: (703) 589-2643

Email: [denise.vondibert@gsa.gov](mailto:denise.vondibert@gsa.gov)

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### Contracting Officer's Representative (COR):

Jessica Cassidy GSA FAS AAS FEDSIM

1800 F Street, NW

Suite 3100 (QF0B)

Washington, D.C. 20405

Telephone: (202) 969-7962

Email: [jessica.cassidy@gsa.gov](mailto:jessica.cassidy@gsa.gov)

### Alternate Contracting Officer's Representative (ACOR):

Lacresha Fikes GSA FAS AAS FEDSIM

1800 F Street, NW

Suite 3100 (QF0B)

Washington, D.C. 20405

Telephone: (202) 208-1348

Email: [lacresha.fikes@gsa.gov](mailto:lacresha.fikes@gsa.gov)

In addition, each approved RFS will have a designated technical lead. These technical leads will interact daily with contractor personnel monitoring the RFS and providing input to the TPOC on contractor performance.

### **G.3.12 INVOICE SUBMISSION**

The contractor shall submit Requests for Payments in accordance with the format contained in General Services Administration Acquisition Manual (GSAM) 552.232-25, PROMPT PAYMENT (NOV 2009), to be considered proper for payment. In addition, the following data elements shall be included on each invoice.

Task Order Number: (from GSA Form 300, Block 2)

Paying Number: (ACT/DAC NO.) (From GSA Form 300, Block 4)

FEDSIM Project Number: AF00685 - 2016014AF

Project Title: Air Force Modeling and Simulation Support Services (AFMS3)

The contractor shall certify with a signed and dated statement that the invoice is correct and proper for payment. The contractor shall provide invoice backup data in accordance with the contract type, including detail such as labor categories, rates, and quantities of labor hours per labor category. The contractor shall submit invoices as follows:

The contractor shall utilize FEDSIM's electronic Assisted Services Shared Information SysTem (ASSIST) to submit invoices. The contractor shall submit invoices electronically by logging onto the following link (requires Internet Explorer to access the link): <https://portal.fas.gsa.gov>

Log in using your assigned ID and password, navigate to the order against which you want to invoice, click the Invoices and Acceptance Reports link in the left navigator, and then click the Create New Invoice button. The AASBS Help Desk should be contacted for support at 877-472-4877 (toll free) or by email at [AASBS.helpdesk@gsa.gov](mailto:AASBS.helpdesk@gsa.gov). By utilizing this method, no paper copy of the invoice shall be submitted to GSA FEDSIM or the GSA Finance Center. However,



## SECTION G – CONTRACT ADMINISTRATION DATA

the FEDSIM COR may require the contractor to submit a written “hardcopy” invoice with the client’s certification prior to invoice payment.

### **G.3.13 INVOICE REQUIREMENTS**

The contractor shall submit simultaneous copies of the invoice to both the FEDSIM COR and TPOC, along with all backup documentations (e.g., receipts, credit card transactions reports, proof of indirect rates, monthly expenditure report) prior to its submission in ASSIST. Each different contract type should be addressed separately in the invoice submission (e.g., FFP CLINs should not be included on a CPFF invoice). The contractor shall:

- a. Combine CPFF NTE (e.g., travel, material and equipment) and CAF charges in one invoice submission.
- b. Combine FFP and CAF charges in one invoice submission.
- c. Provide receipts for all travel and Equipment & Material purchases.

The final invoice is desired to be submitted within six months of project completion. The contractor shall provide the Government with a monthly status on when the final invoice will be submitted to the Government.

#### **G.3.13.1 COST-PLUS-FIXED-FEE (CPFF) CLINs (for LABOR)**

The contractor may invoice monthly on the basis of cost incurred for the CPFF CLINs. The invoice shall include the PoP covered by the invoice and the CLIN number and title. All hours and costs shall be reported by CLIN element (as shown in Section B), by contractor employee, and shall be provided for the current billing month and in total from project inception to date. In addition, the contractor shall track sources of funding by specific task/subtask area. The Government shall provide this information to the contractor after the award of all incremental funding modifications. The contractor shall ensure all work is performed in accordance with the correct task/subtask, CLIN, and funding source. The listing shall include separate columns and totals for the current invoice period and the project to date. The contractor shall provide the invoice data in spreadsheet form (**see Section J, Attachment N**) with the following detailed information:

- a. Employee name (current and past employees)
- b. RFS Identifier Number (if applicable)
- c. Employee company labor category
- d. Employee OASIS labor category
- e. CLIN - Mandatory and Optional
- f. Task Description
- g. Subtask
- h. Proposed Rate
- i. Actual Rate
- j. Variance
- k. Current Hours
- l. Current Amount

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- m. Prior Cumulative Hours
- n. Prior Cumulative Amount
- o. Total Cumulative Hours
- p. Total Cumulative Amount
- q. Corresponding TO ceiling rate
- r. Fixed fee
- s. Cost incurred not billed
- t. Time period of hours billed if different than invoiced period
- u. Current approved forward pricing rate agreement in support of indirect costs billed

All cost presentations provided by the contractor shall also include Overhead charges, and General and Administrative charges and shall also include the Overhead and General and Administrative rates being applied.

### **G.3.13.2 MATERIALS AND EQUIPMENT**

The contractor shall invoice monthly on the basis of cost incurred for the Materials and Equipment CLIN. The invoice shall include the PoP covered by the invoice and the CLIN number and title. In addition, the contractor shall provide the following detailed information in spreadsheet format for each invoice submitted, as applicable (**see Section J, Attachment N**):

- a. Approved Material and Equipment Number or Identifier
- b. Materials and Equipment Purchased/Description
- c. Date Approved by the Government
- d. Estimate Cost
- e. Amount Billed/Invoiced
- f. Variance between Estimated and Billed Cost
- g. Overhead charges, General and Administrative charges
- h. Associated CLIN
- i. Project-to-date totals by CLIN
- j. Cost incurred not billed
- k. Remaining balance of the CLIN

All cost presentations provided by the contractor shall also include Overhead charges, General and Administrative charges, and backup documentation of purchase (e.g., receipts).

### **G.3.13.3 TRAVEL**

Contractor costs for travel will be reimbursed at the limits set in the following regulations (see FAR 31.205-46):

- a. Federal Travel Regulations (FTR) - prescribed by the GSA, for travel in the contiguous U.S.
- b. Joint Travel Regulations (JTR), Volume 2, Department of Defense (DoD) Civilian Personnel, Appendix A - prescribed by the DoD, for travel in Alaska, Hawaii, and outlying areas of the U.S. Department of State Standardized Regulations (DSSR) (Government Civilians, Foreign Areas), Section 925, "Maximum Travel Per Diem

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Allowances for Foreign Areas" - prescribed by the Department of State, for travel in areas not covered in the FTR or JTR.

The contractor may invoice monthly on the basis of cost incurred for cost of travel comparable with the JTR/FTR. The invoice shall include the PoP covered by the invoice, the CLIN number, title, and identify all cumulative travel costs billed by CLIN/Task. The contractor shall provide separate worksheets; in MS Excel format for travel (**see Section J, Attachment N**) with the following information:

- a. Travel Authorization Request number or identifier, approver name, and approval date
- b. Current invoice period
- c. Names of persons traveling
- d. Number of travel days
- e. Dates of travel
- f. Number of days per diem charged
- g. Per diem rate used
- h. Total per diem charged
- i. Transportation costs
- j. Total charges
- k. Explanation of variances exceeding 10% of the approved versus actual costs
- l. Indirect Handling Rate

All cost presentations provided by the contractor shall also include Overhead charges, General and Administrative charges, and backup documentation of purchase (e.g., receipts).

### **G.4. OASIS AND TASK ORDER CLOSE-OUTS**

The contractor shall cooperate with the FEDSIM CO to close out the TO as soon as practical after expiration, cancellation, or termination. The contractor shall provide the Government with a detailed schedule of close-out actions to be completed. The schedule shall at minimum include the following:

- a. Expected date of final invoice shall be submitted for labor, travel, material and equipment, and CAF.
- b. Expected date of contractor's finalized indirect costs.
- c. Expected date for close-out completion.

After the PoP has ended, the contractor shall provide the FEDSIM CO and FEDSIM COR with monthly updates on the detailed close-out schedule. The contractor's close-out performance will be evaluated and captured through the CPARS module.

## SECTION H – SPECIAL CONTRACT REQUIREMENTS

NOTE: The Section numbers in this TO correspond to the Section numbers in the OASIS UNRESTRICTED Contract (POOL 1).

### **H.4 NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS)**

The NAICS code for this TO is 541330 - Engineering Services.

### **H.5 PRODUCT SERVICE CODE**

The product service code is R499 - Other Professional Services.

### **H.6 SYSTEMS, CERTIFICATIONS, AND CLEARANCES**

#### **H.6.5 APPROVED PURCHASING SYSTEMS**

The objective of a contractor purchasing system assessment is to evaluate the efficiency and effectiveness with which the contractor spends Government funds and complies with Government policy with subcontracting.

Prior to the award of a TO, the FEDSIM CO shall verify the validity of the contractor's purchasing system. Thereafter, the contractor is required to certify to the FEDSIM CO, no later than 30 calendar days prior to the exercise of any options, the validity of its purchasing system. Additionally, if reviews are conducted of the purchasing system after TOA, the contractor shall provide the results of the review to the FEDSIM CO within 10 workdays from the date the results are known to the contractor.

### **H.7 SECURITY CLEARANCE REQUIREMENTS**

All contractor personnel (including teaming partners and/or subcontractors, if proposed) under this TO are required to have security clearances as stated by RFS. Some contractor personnel under applicable Section C task areas are required to have an active TS clearance with SCI eligibility before performing any work under this acquisition. The RFS areas requiring a TS clearance with SCI eligibility will be identified in each applicable RFS:

In addition, the contractor shall not access classified systems from the contractor's site. The contractor must possess, or acquire prior to award of the TO, a facility clearance equal to the highest classification stated on the Contract Security Classification Specification 9, DD Form 254 (**see Section J, Attachment O**). The contractor shall enter into a security agreement (or understanding) with the local Government security office. This will ensure the contractor follows local security procedures while performing at the Government facility. As a minimum, the agreement shall identify the security actions that will be performed: (a) By the Government facility for the contractor, such as providing storage and classified reproduction facilities, guard services, security forms, security reviews under DoD 5220.22-M, classified mail services, security badges, visitor control, and investigating security incidents; and (b) Jointly by the contractor and the installation, such as packaging and addressing classified transmittals, security checks, internal security controls, and implementing emergency procedures to protect classified information; and (c) By the contractor for periods processing work not to exceed the SECRET level at contractor facilities, such as providing storage and classified reproduction facilities,

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guard services, security forms, security reviews under DoD 5220.22-M, classified mail services, security badges, visitor control, and investigating security incidents.

The security policies, procedures, and requirements stipulated in the National Industrial Security Program (NISP), National Industrial Security Program Operating Manual (NISPOM) and any supplements thereto are applicable, to include, applicable FAR, Defense Federal Acquisition Regulations (DFAR), and Agency specific guidelines/requirements. The Government requires the following policies, procedures, and requirements: Air Force Federal Acquisition Regulations (AFFARS) security provisions and/or clauses. AFFARS Clause 5352-204-9000, Notification of Security Activity, AFFARS Clause 5352-204-9001, Visitor Group Security Agreement (VGSA), and Air Force Instruction (AFI) 31-601 Industrial Security Program Management, are applicable to these efforts whenever contract performance occurs on an AF installation or within an AF-controlled facility or activity.

Work on this TO may require that personnel have access to privacy and other sensitive information. Personnel will adhere to the Privacy Act, Title 5 of the United States Code, Section 552a and applicable Agency rules and regulations. Contractor personnel shall not divulge or release privacy data or information developed or obtained in the performance of this TO, until made public or specifically authorized by the Government. The contractor shall not use, disclose, or reproduce third-party companies' proprietary data, other than as authorized and required in performance of this TO. Personnel working on this TO shall be required to sign a Non-Disclosure Agreement (NDA) immediately upon Task Order Award (TOA). Additional NDA(s) may be required for specific RFS(s). Pursuant to Section 808 of Publication L. 102-190 (DFAS 204, Subpart 204.402(2)), DoD employees or members of the Armed Forces who are assigned to or visiting a contractor facility and are engaged in oversight of an acquisition program will retain control of their work product. Classified work products of DoD employees or members of the Armed Forces shall be handled in accordance with DoD 5220.22-M. The contractor's procedures for protecting against unauthorized disclosure of information will not require DoD employees or members of the Armed Forces to relinquish control of their work product, whether classified or not, to the contractor. The contractor shall also have access to and be required to safeguard For Official Use Only (FOUO), sensitive, confidential, and classified information and material.

### **H.7.1 CONTRACTOR IDENTIFICATION REQUIREMENTS**

Contractor personnel supporting both on-site at the Government's location or a Joint M&S community agency installation shall be required to obtain a facility badge/I.D., Common Access Card (CAC), and unclassified and/or classified system accounts (log-on and email). Contractor personnel shall be required to obtain and maintain security badges and adhere to the security requirements of the installation. Failure to safeguard any privileged information which may involve the contractor or the contractor's personnel, or to which they may have access, may subject the contractor and/or contractor's personnel to criminal liability under Title 18, section 793 and 7908 of the United States Code. Provisions of the Privacy Act apply to all records and reports maintained by the contractor.

Contractor personnel performing services on DoD installations or other Government facilities shall ensure that they are readily identifiable as contractor employees (including subcontractors

## SECTION H – SPECIAL CONTRACT REQUIREMENTS

and consultants). Contractor employees with access to a DoD or other Government Local Area Network (LAN) systems shall:

- a. Identify themselves as contractor personnel at the onset of every telephone call made from a Government telephone or any other phone if the call is made in support of Government-related requirements and activities.
- b. Identify themselves as contractor personnel in all recorded messages including those, which are heard by callers attempting to contact contractor employees via answering machines or voicemail.
- c. Identify themselves as contractor personnel at the onset of every meeting, conference or any other gathering attended in support of any Government related requirements or activities.
- d. Identify themselves as contractor personnel on any correspondence, documents, or reports accomplished or sent in support of any service provision to the Government, including, but not limited to, correspondence sent via the U.S. Mail, facsimile, or electronic mail (email) inclusive of out-of-office replies.
- e. Wear or display contractor provided nametags, badges or attire which display, at a minimum, the name of the contractor and their respective company.

### **H.7.2 SECURITY REQUIREMENTS FOR OVERSEAS TRAVEL**

The contractor may be required to travel overseas during the TO PoP. The contractor shall adhere to the regulations stated in Section H.21.1 - Travel Regulations and ensure all contractor personnel traveling overseas have the required documentation and approvals.

For travel to Korea for durations of less than 90 days (within 12 months), the contractor shall consult the following website for applicable training information: [www.usfk.mil/](http://www.usfk.mil/)

In addition, the contractor shall also adhere to guidance provided in Section H.24.1 and Korea SOFA Guide (**see Section J, Attachment P**).

For travel requirements/restrictions to any other foreign country, see the Foreign Clearance Guide (FCG) at the following website for applicable information:

<https://www.fcg.pentagon.mil/fcg.cfm>

The contractor shall stay abreast on all overseas security requirement changes and implement these changes as they occur.

### **H.13 ETHICS AND CONDUCT**

#### **H.13.3 CONFLICT OF INTEREST**

##### **H.13.3.1 ORGANIZATIONAL CONFLICT OF INTEREST (OCI)**

In accordance with FAR 2.101(b), if the contractor (and any subcontractors, consultants, or teaming partners) has or is providing support or anticipates providing support to the Joint M&S Community that creates or represents an actual or potential organizational conflict of interest (OCI), the contractor shall immediately disclose this actual or potential OCI in accordance with

## SECTION H – SPECIAL CONTRACT REQUIREMENTS

FAR Subpart 9.5. The contractor is also required to complete and sign an OCI Statement in which the contractor (and any subcontractors, consultants, or teaming partners) agrees to disclose information concerning the actual or potential conflict with any proposal for any solicitation relating to any work in the TO. All actual or potential OCI situations shall be identified and addressed in accordance with FAR Subpart 9.5.

Should the contractor believe there is an OCI between supporting this procurement and the contractor's current support for a separate contract/TO, the contractor shall provide the following information, at a minimum to the FEDSIM CO with its proposal submission:

- a. Organization supported
- b. Contact name, phone, and e-mail (multiple contacts if possible)
- c. The type of support being provided for the current separate contract/TO
- d. The believed conflict based on guidance from FAR 9.5
- e. The contractor's method of mitigating the perceived OCI.

### **H.13.3.2 NON-DISCLOSURE REQUIREMENTS**

If the contractor acts on behalf of, or provides advice with respect to any phase of an agency procurement, as defined in FAR 3.104-4, then the contractor shall execute and submit a Corporate Non-Disclosure Agreement (NDA) Form (see Section J, Attachment Q) and ensure that all its personnel (to include subcontractors, teaming partners, and consultants) who will be personally and substantially involved in the performance of the TO:

- a. Are listed on a signed Addendum to Corporate NDA Form (see Section J, Attachment R) prior to the commencement of any work on the TO,
- b. Are instructed in the FAR 3.104 requirements for disclosure, protection, and marking of contractor bid or proposal information, or source selection information, and
- c. Are instructed in FAR Part 9 for third-party disclosures when acting in an advisory capacity.

All proposed replacement contractor personnel also must be listed on a signed Addendum to Corporate NDA and be instructed in the requirements of FAR 3.104. Any information provided by contractors in the performance of this TO or obtained by the Government is only to be used in the performance of the TO. The contractor shall put in place appropriate procedures for the protection of such information and shall be liable to the Government for any misuse or unauthorized disclosure of such information by its personnel, as defined above.

### **H.14 GOVERNMENT-FURNISHED PROPERTY (GFP)**

The contractor shall perform work on-site at Government locations, AF/DoD field site locations, other Joint M&S Community on-site locations, and off-site at the contractor locations as identified in Section C Tasks/Subtasks or the RFS. If a location is not identified, the contractor shall determine the most appropriate location for the work to be performed. . The contractor shall determine which personnel shall reside on-site at a Government locations or off-site at contractor locations to align with the requirements in Section C - Statement of Work and Section H - Special Contract Requirements.

## SECTION H – SPECIAL CONTRACT REQUIREMENTS

Contractor personnel supporting the M&S Community on-site as identified in Section C Tasks/Subtask or the RFS will be provided with a desktop or laptop, a work space, network access, and building badges/accesses to enter Government facilities. Contractor personnel that do not reside in Government spaces will be provided with a Government-issued laptop or network access depending on the requirement.

The contractor shall safeguard and secure all GFP in accordance with DoD governing policies and procedures. All GFP including, but not limited to, IT equipment, software, communication devices, telephones, access cards, office furniture, and supplies shall be returned to TPOC or corresponding M&S Community POC prior to the departure of each responsible contractor employee or at the end of the TO whichever date comes earlier. Use of all GFP for other than Government work is strictly prohibited.

### **H.14.1 GOVERNMENT-FURNISHED INFORMATION (GFI)**

The Government will provide all documentation necessary for completion of the requirements after TOA. GFI includes, but is not limited to, the following:

- a. Network System Description Document (SDD)
- b. Networks IT Contingency (ITC) and COOP
- c. Network Incident Response Plan (IRP)
- d. IT configuration Design - Network Diagrams
- e. Circuit Enclave AF Integrated Video Teleconference Topology
- f. Annual IT Inventory List

### **H.18 KEY PERSONNEL**

The following are the minimum personnel who shall be designated as “Key.” The Government does not intend to dictate the composition of the ideal team to perform this TO. Therefore, the Government will evaluate up to three additional Key Personnel as proposed by the offeror. The Key Personnel must possess all Mandatory requirements at time they begin support. Key Personnel, other than the PM, are only required when continuously funded under CPFF labor CLINS.

- a. Project Manager (PM)

It is desired that all Key Personnel have the following qualifications:

- a. Demonstrated knowledge of system supportability concepts (logistic support elements, reliability, maintainability and availability).
- b. Demonstrated experience implementing project management principles and managing, tracking, and coordinating a wide range of actions, documents, and tasks through completion.
- c. Proficient in Microsoft (MS) Office applications (e.g. Word, PowerPoint, and Project).



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The Government desires that Key Personnel be assigned for the duration of the TO.

### **H.18.1 PROJECT MANAGER (PM)**

The contractor shall identify a PM to serve as the Government's primary POC. The PM is required to provide overall leadership and guidance for all contractor personnel assigned to the TO including assigning taskings to contractor personnel, supervising on-going technical efforts, and managing overall TO performance. The PM is responsible for the quality and efficiency of the TO, to include both technical issues and businesses processes. It is required that the PM be an employee of the prime contractor and have the authority to commit the contractor's organization and make decisions for the contractor's organization in response to Government issues, concerns, and comments, as well as be proactive in alerting the Government to potential contractual or programmatic, and resource limitations issues. The PM shall be required to occasionally travel to CONUS and OCONUS military bases.

It is required that the PM possess the following qualifications:

- a. Successful management of a program similar in size, scope and complexity referenced under this TO.
- b. Bachelor's degree with 10 years of related PM professional experience.
- c. Current Project Management Institute (PMI) Project Management Professional certification or Program Management Professional (PMP) certification.
- d. Experience presenting material to senior Government officials and key stakeholders.

It is desirable that the PM possess the following qualifications:

- a. Master's degree in M&S or a certificate in M&S.
- b. Experience managing, coordinating, and facilitating a staff in a DoD/Federal Agency environment.
- c. Experience planning, directing, coordinating, and managing the offeror's proposed methodologies and approach of a project similar in size and scope as referenced in this TO, to include manpower utilization, procurement of materials and equipment, standards, training, problem resolution, and employee relations (including subcontractors, cost, budget, and managing to milestones).
- d. Defense Acquisition University (DAU) or Federal Acquisition Institute (FAI) Program Manager Certification.

### **H.18.2 KEY PERSONNEL SUBSTITUTION**

The contractor shall not replace any personnel designated as Key Personnel without the written concurrence of the FEDSIM CO. Prior to utilizing other than previously approved personnel, the contractor shall notify the FEDSIM CO and the FEDSIM COR. This notification shall be no later than ten calendar days in advance of any proposed substitution and shall include justification (including resume(s) and labor category of proposed substitution(s)) in sufficient detail to permit evaluation of the impact on TO performance. When the contractor notifies the

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government of a funds projection for a CPFF funded Key Personnel, this notification shall be considered notification that Key Personnel will be lost when funding ends.

Substitute personnel qualifications shall be equal to, or greater than, those of the personnel being substituted. If the Government FEDSIM CO and the FEDSIM COR determine that the proposed substitute personnel is unacceptable, or that the reduction of effort would be so substantial as to impair the successful performance of the work under the TO, the contractor may be subject to default action as prescribed by FAR 52.249-6, Termination (Cost Reimbursement) or FAR 52.249-8, Default (Fixed-Price Supply and Service).

### **H.19 SPECIALIZED NON-KEY PERSONNEL SKILLS**

The Government desires that the non-Key contractor personnel possess qualifications, skills, training and/or experience that meet or exceed Section C Tasks and Subtasks. The contractor shall be capable of rapidly responding to changes associated with the dynamic M&S community. The contractor shall have the expert knowledge of M&S concepts, operational theater experience, and technical services and products experience, or a combination of all three skill sets to complete task requirements.

#### **TASK 3 -- PROVIDE M&S TECHNICAL SUPPORT (Section C.4.3)**

##### **a. SUBTASK 3.1 - PROVIDE M&S SUSTAINMENT, TESTING, AND ENHANCEMENT SUPPORT (Section 4.3.1)**

1. Mandatory Qualifications and Skills: Possess one of the following degrees or experience requirements: Associate of Science Degree in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 4 years of M&S technical experience; a non-technical Bachelor's Degree with at least 6 years of M&S technical experience; Bachelors of Science Degree or higher in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 2 years of M&S technical experience; or at least 10 years of M&S technical experience.

##### **b. SUBTASK 3.2 - PROVIDE M&S SUSTAINMENT, TESTING, AND ENHANCEMENT SUPPORT (Section 4.3.2)**

1. Mandatory Qualifications and Skills: Possess one of the following degrees or experience requirements: Associate of Science Degree in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 4 years of M&S technical experience; a non-technical Bachelor's Degree with at least 6 years of M&S technical experience; Bachelors of Science Degree or higher in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 2 years of M&S technical experience; or at least 10 years of M&S technical experience.

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### c. **SUBTASK 3.3 - PROVIDE TECHNICAL SERVICES FOR THE M&S COMMUNITY (Section C.4.3.3)**

1. Mandatory Qualifications and Skills: Possess one of the following degrees or experience requirements: Associate of Science Degree in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 4 years of M&S technical experience; a non-technical Bachelor's Degree with at least 6 years of M&S technical experience; Bachelors of Science Degree or higher in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 2 years of M&S technical experience; or at least 10 years of M&S technical experience.

### d. **PROVIDE TECHNICAL M&S SUPPORT TO USSTRATCOM TEST AND INTEGRATION FACILITY (TIF) (Section C.4.3.2.1.1)**

1. Mandatory Qualifications and Skills: Possess any VMWare Data Center Certification.

### e. **SUBTASK 3.4 - PROVIDE TECHNICAL SERVICES FOR M&S SYSTEMS AND PROGRAM OFFICES (Section C.4.3.4)**

1. Mandatory Qualifications and Skills: Possess one of the following degrees or experience requirements: Associate of Science Degree in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 4 years of M&S technical experience; a non-technical Bachelor's Degree with at least 6 years of M&S technical experience; Bachelors of Science Degree or higher in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 2 years of M&S technical experience; or at least 10 years of M&S technical experience.

### f. **SUBTASK 3.5: PROVIDE TECHNICAL SERVICES FOR M&S CAPABILITIES (Section C.4.3.5)**

1. Mandatory Qualifications and Skills: Possess one of the following degrees or experience requirements: Associate of Science Degree in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 4 years of M&S technical experience; a non-technical Bachelor's Degree with at least 6 years of M&S technical experience; Bachelors of Science Degree or higher in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 2 years of M&S technical experience; or at least 10 years of M&S technical experience.

### g. **SUBTASK 3.6: PROVIDE TECHNICAL SERVICES FOR M&S CAPABILITIES TO THE M&S COMMUNITY (Section C.4.3.6)**

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1. Mandatory Qualifications and Skills: Possess one of the following degrees or experience requirements: Associate of Science Degree in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 4 years of M&S technical experience; a non-technical Bachelor's Degree with at least 6 years of M&S technical experience; Bachelors of Science Degree or higher in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 2 years of M&S technical experience; or at least 10 years of M&S technical experience.

### **h. SUBTASK 3.7 - PROVIDE M&S/LVC CYBERSECURITY SUPPORT (Section C.4.3.7)**

1. Mandatory Qualifications and Skills: Contractor personnel performing IA, C&A, Information Assurance Technical (IAT), and Management (IAM), requirements shall possess and maintain required certifications in accordance with DoD 8570, Information Assurance Workforce Improvement Program (**see Section J, Attachment AC**).
  - i. Contractor personnel performing IAT requirements are required to have at a minimum an IAT Level II certification.
  - ii. Contractor personnel performing IAM requirements are required to have at a minimum an IAM Level II.
  - iii. Presentation of a valid/current certificate in accordance with the requirements of DoD 8570 shall be considered sufficient for meeting the requirements of an IA related labor category.
2. Mandatory Qualifications and Skills: Contractor personnel designated as the IA Lead and IA Assistant Lead shall possess and maintain an Information Assurance Manager (IAM) Level III certification.
3. Mandatory Qualifications and Skills: Contractor personnel performing Security Controller Assessor Representative (SCAR) functions shall be certified in accordance with DoD 8570, IAM Level II or above.

### **i. SUBTASK 3.8 - PROVIDE M&S/LVC CYBERSECURITY SUPPORT (Section C.4.3.8)**

1. Mandatory Qualifications and Skills: Contractor personnel performing IA, C&A, Information Assurance Technical (IAT), and Management (IAM), requirements shall possess and maintain required certifications in accordance with DoD 8570, Information Assurance Workforce Improvement Program (**see Section J, Attachment AC**).
  - i. Contractor personnel performing IAT requirements are required to have at a minimum an IAT Level II certification.
  - ii. Contractor personnel performing IAM requirements are required to have at a minimum an IAM Level II.
  - iii. Presentation of a valid/current certificate in accordance with the requirements of DoD 8570 shall be considered sufficient for meeting the requirements of an IA related labor category.

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2. Mandatory Qualifications and Skills: Contractor personnel designated as the IA Lead and IA Assistant Lead shall possess and maintain an Information Assurance Manager (IAM) Level III certification.
  3. Mandatory Qualifications and Skills: Contractor personnel performing Security Controller Assessor Representative (SCAR) functions shall be certified in accordance with DoD 8570, IAM Level II or above.
- j. **SUBTASK 3.9 - PROVIDE CROSS DOMAIN INFORMATION SHARING (CDIS) SUPPORT (Section C.4.3.9)**
1. Mandatory Qualifications and Skills: Possess a security related certification that is approved as a DoD 8570 Baseline Certification (**see Section J, Attachment AC**).
    - i. Contractor personnel performing CDIS activities at an equivalent MILDEP/Federal Agency Level with strategic/policy implications shall possess an IAT Level III certification.
    - ii. Contractor personnel performing CDIS activities in the field throughout the M&S Community with operational and tactical missions shall possess an IAT Level I.
- k. **SUBTASK 3.10 - PROVIDE CROSS DOMAIN INFORMATION SHARING (CDIS) SUPPORT (Section C.4.3.10)**
1. Mandatory Qualifications and Skills: Possess a security related certification that is approved as a DoD 8570 Baseline Certification (**see Section J, Attachment AC**).
    - i. Contractor personnel performing CDIS activities at the Government location or at an equivalent MILDEP/Federal Agency Level with strategic/policy implications shall possess an IAT Level III certification.
    - ii. Contractor personnel performing CDIS activities in the field throughout the M&S Community with operational and tactical missions shall possess an IAT Level I.
- l. **SUBTASK 3.13 - PROVIDE M&S CAREER FIELD DEVELOPMENT SUPPORT FOR HEADQUARTERS AGENCIES (Section C.4.3.13)**
1. Mandatory Qualifications and Skills: Possess one of the following degrees with the experience requirement: Associate of Human Resources or equivalent degree (e.g., personnel management) with at least 6 years of experience working in any capacity for a Civilian Personnel Management Office at a Federal or State level; or a Bachelor's Degree in any field awarded within the last 5 years, with at least 4 years in the Human Resources and Career Field Development field; or a Bachelors in Human Resources or equivalent degree (e.g., personnel management) with at least 2 years of experience in the Human Resources and Career Field Development field.
- m. **SUBTASK 3.14 - M&S CAREER FIELD DEVELOPMENT SUPPORT FOR M&S COMMUNITY (Section C.4.3.14)**

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1. Mandatory Qualifications and Skills: Possess one of the following degrees with the experience requirement: Associate of Human Resources or equivalent degree (e.g., personnel management or behavioral science ) with at least 6 years of experience working in any capacity for a Civilian Personnel Management Office at a Federal or State level in the Human Resources and Career Field Development field; or a Bachelor's Degree in any field awarded within the last 5 years, with at least 4 years in the Human Resources and Career Field Development field; or a Bachelors in Human Resources or equivalent degree (e.g., personnel management or behavioral science ) with at least 2 years of experience in the Human Resources and Career Field Development field.

### **TASK 4 - PROVIDE INNOVATIVE M&S SERVICES AND CAPABILITIES (Section C.4.4)**

#### **a. ALL TASK 4 TASKS/SUBTASKS:**

1. Mandatory Qualifications and Skills: Possess one of the following degrees or experience requirements: Associate of Science Degree in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 4 years of M&S technical experience; a non-technical Bachelor's Degree with at least 6 years of M&S technical experience; Bachelors of Science Degree or higher in M&S, Engineering (Electrical, Computer, Systems, Network or Software), Computer Science or IT with at least 2 years of M&S technical experience; or at least 10 years of M&S technical experience.

### **TASK 5 – PROVIDE ANCILLARY SUPPORT SERVICES (Section C.4.5)**

#### **a. SUBTASK 5.2 – PROVIDE M&S AWARENESS AND CULTURALIZATION (A&C) (Section C.4.5.2)**

1. Mandatory Qualifications and Skills: Possess one of the following degrees with the experience requirements: Associates in Communications, Journalism, English, History, or Education with at least 6 years of experience communications, broadcasting, or journalism; any Bachelor's Degree with at least 6 years in communications, broadcasting, or journalism experience; or a Bachelors in Communications, Journalism, English, History, or Education with at least 3 years of experience in communications, broadcasting, or journalism.
2. Mandatory Qualifications and Skills: Possess the Search Engine Optimization (SEO) Professional certification.

#### **b. SUBTASK 5.3 – PERFORM INFORMATION TECHNOLOGY (IT) SUPPORT SERVICES (Section C.4.5.3)**

##### **1. PROVIDE NETWORK MANAGEMENT SUPPORT (Section C.4.5.3.2)**

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- i. Mandatory Qualifications and Skills: Possess the following certifications: Microsoft Certified Solutions Associate (MCSA) for Windows Server 2008 and Microsoft Solution Expert (MCSE) in Messaging.
- 2. PROVIDE SYSTEM ADMINISTRATION SUPPORT (Section C.4.5.3.3)**
  - i. Mandatory Qualifications and Skills: Possess the following certifications: Microsoft Certified Solutions Associate (MCSA) for Windows Server 2008 and Microsoft Certified Solution Expert (MCSE) in Messaging.
- 3. PROVIDE NETWORK AND SYSTEM SECURITY (Section C.4.5.3.5)**
  - i. Mandatory Qualifications and Skills: Contractor personnel shall maintain appropriate cybersecurity certifications in accordance with AFMAN 33-285, Information Assurance Workforce Improvement Training and DoD 8570, Information Assurance Workforce Improvement Program (see **Section J, Attachment AC**).
    - a. Contractor personnel performing IAT requirements are required to have at a minimum a IAT Level II certification.
    - b. Contractor personnel performing IAM requirements are required to have at a minimum a IAM Level II.
  - ii. Mandatory Qualifications and Skills: Contractor personnel shall possess a security related certification that is approved as a DoD 8570 Baseline Certification (e.g., CCNA-Security, Security+CE).
- 4. PERFORM WEB-SITE SUPPORT (Section C.4.5.3.6)**
  - i. Mandatory Qualifications and Skills: Possess a Microsoft Certified Solution Developer (MCSD) for Sharepoint certification.
  - ii. Mandatory Qualifications and Skills: Possess the Search Engine Optimization (SEO) Professional certification.
- 5. PROVIDE TELECOMMUNICATIONS AND MULTIMEDIA SUPPORT (Section C.4.5.3.9)**
  - i. Mandatory Qualifications and Skills: At least 2 years of experience in telecommunications and multimedia support.
  - ii. Mandatory Qualifications and Skills: Contract personnel operating Video Teleconference network shall possess a certification in accordance with the Defense Information Systems Agency (DISA) Defense Information System Network (DISN) Video Services (DVS) Performance Evaluation and Certification Program as prescribed in the DVS Training Policy Document (see **Section J, Attachment AD**).

### **H.21 TRAVEL**

#### **H.21.1 TRAVEL REGULATIONS**

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Contractor costs for travel will be reimbursed at the limits set in the following regulations (see FAR 31.205-46):

- a. Federal Travel Regulations (FTR) - prescribed by the GSA, for travel in the contiguous U.S.
- b. Joint Travel Regulations (JTR), Volume 2, Department of Defense (DoD) Civilian Personnel, Appendix A - prescribed by the DoD, for travel in Alaska, Hawaii, and outlying areas of the U.S.
- c. Department of State Standardized Regulations (DSSR) (Government Civilians, Foreign Areas), Section 925, "Maximum Travel Per Diem Allowances for Foreign Areas" - prescribed by the Department of State, for travel in areas not covered in the FTR or JTR.

### **H.21.2 TRAVEL AUTHORIZATION REQUESTS (TARs)**

Before undertaking travel to any Government site or any other site in performance of this TO, the contractor shall have this travel approved by, and coordinated with, the FEDSIM COR. Notification shall include, at a minimum, the number of persons in the party, traveler name, destination, duration of stay, purpose, and estimated cost. Prior to any long-distance travel, the contractor shall prepare a TAR for Government review and approval. Long-distance travel will be reimbursed for cost of travel comparable with the Federal and Joint Travel Regulations. Additional, Department of State Standard Regulations are applicable to all travel outside the United States.

Requests for travel approval shall:

- a. Be prepared in the Intranet Travel System.
- b. Identify the TO number.
- c. Identify the CLIN associated with the travel.
- d. Contain the following:
  - e. Date, time and points of departure,
  - f. Destination, time and dates of arrival,
  - g. Name of each Contractor employee, company and position title traveling,
  - h. Origin,
  - i. Dates of Travel,
  - j. Organization to be visited,
  - k. Purpose of Travel,
  - l. Requesting Individual's Name,
  - m. Estimate of Travel Funds Required (Include Airfare, Rental Car, Lodging, Transportation, Parking, POV mileage, Gasoline, Other),
  - n. TPOC Concurrence
  - o. FEDSIM COR Approval
- p. Be submitted in advance of the travel with 5 workdays to permit review and approval.

The contractor shall use only the minimum number of travelers and rental cars needed to accomplish the task(s). Travel shall be scheduled during normal duty hours whenever possible.



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### **H.22 MATERIALS AND EQUIPMENT**

The Government may require the contractor to purchase hardware, software, and related supplies critical and related to the services being acquired under the TO. Such requirements will be identified at the time a TOR is issued or may be identified during the course of a TO by the Government or the contractor. Section J, Attachment J provides a historical listing representative of the items the contractor may deliver over the 5 year PoP. If the contractor initiates a purchase within the scope of this TO and the prime contractor has an approved purchasing system, the contractor shall submit to the FEDSIM COR a Request to Initiate Purchase (RIP) (**see Section J, Attachment S**). If the prime contractor does not have an approved purchasing system, the contractor shall submit to the FEDSIM CO a Consent to Purchase (CTP) (**see Section J, Attachment T**). The RIP and CTP shall include the purpose, specific items, estimated cost, cost comparison, and rationale. The contractor shall not make any purchases without an approved RIP from the FEDSIM COR or an approved CTP from the FEDSIM CO and without complying with the requirements of Section H.25, Commercial Software Agreements.

### **H.23 REQUEST FOR SERVICE (RFS)**

This support shall provide the Joint M&S Community with additional and/or initial support over the life of the TO. The additional and/or initial support shall be captured in a detailed RFS (**see Section J, Attachment U**). The RFS shall include the purpose, location, specific tasks/subtasks for the additional M&S support, and other supporting detail related to the requirement(s) (e.g., security clearance, certification requirements). Before undertaking a RFS, the contractor shall have the RFS approved by, and coordinated with, the TPOC, M&S Community POC, and FEDSIM COR.

### **H.24 INVITED CONTRACTOR OR TECHNICAL REPRESENTATIVE STATUS AGREEMENTS (SOFA)**

Invited Contractor (IC) and Technical Representative (TR) status shall be governed by the various SOFA implemented by United States Forces in a variety of theaters (e.g., South Korea and Germany). The contractor shall coordinate with the Government to satisfy all requirements by the governing regulations for the specified theater. The contractor shall do the initial research into the requirements and inform the Government as to what the requirements are to travel into theater. It is agreed that the withdrawal of invited contractor or technical representative status, or the withdrawal of, or failure to provide any of the privileges associated therewith by the U.S. shall not constitute grounds for excusable delay by the contractor in the performance of the TO and will not justify or excuse the contractor defaulting in the performance of this TO. Furthermore, withdrawal of SOFA status for any reason shall not serve as a basis for the contractor filing any claims against the U.S.

#### **H.24.1 U.S. REPUBLIC OF KOREA (ROK) -- INVITED CONTRACTOR OR TECHNICAL REPRESENTATIVE PROGRAM (USFK Regulation 700-19 4 June 2007)**

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IC and TR status shall be governed by the U.S. ROK SOFA as implemented by United States Forces Korea (USFK) Reg 700-19, which can be found under the “Publications” tab on the US Forces Korea homepage: <http://www.usfk.mil>. In addition, the contractor shall also adhere to guidance provided in Section H.7.2 and **Section J, Attachment P**.

### **H.25 COMMERCIAL SOFTWARE AGREEMENTS**

The Government understands that commercial software tools that may be purchased in furtherance of this TO and as contemplated in the materials and equipment CLINs in Section B.2 may be subject to commercial agreements which may take a variety of forms, including without limitation licensing agreements, terms of service, maintenance agreements, and the like, whether existing in hard copy or in an electronic or online format such as "clickwrap" or "browsewrap" (collectively, "Software Agreements"). The parties acknowledge that the FAR clause at 12.212(a) requires the Government to procure such tools and their associated documentation under such Software Agreements to the extent such Software Agreements are consistent with Federal law.

H.25.2 In order to ensure that the Software Agreements are consistent with Federal law, the contractor shall not make any purchase contemplated in Section C.4 without first securing the consent of the licensor of such software tools to amend the Software Agreements in accordance with the Amendment clause set forth in Section H.25.4 below. The contractor shall submit documentary evidence of such consent as part of its technical proposal.

H.25.3 The requirements of this Section H.25.3 apply only to those commercial software tools newly purchased under this TO; they do not apply to software furnished as GFP/GFI (if any). Further, they apply only to those Software Agreements that define the Government as the licensee or are intended to be transferred or assigned to the Government, with the Government becoming the licensee, at the end of this TO.

H.25.4 As used in the Amendment clause, the term "this Agreement" refers to each Software Agreement. The relevant definitions and the capitalization of terms (e.g., Licensee, Licensor, Software, Agreement) may be adjusted as necessary to match the nomenclature of the Software Agreement.

Amendment For Federal Government Licensees, this Agreement is hereby amended as follows:

- a. Dispute resolution and governing law: Any arbitration, mediation or similar dispute resolution provision in this Agreement is hereby deleted. This Agreement shall be governed by and interpreted and enforced in accordance with the laws of the United States of America, and dispute resolution shall take place in a forum, and within the time period, prescribed by applicable federal law. To the extent permitted by federal law and then only to the extent not pre-empted by federal law, the laws of the state specified in this Agreement (excluding its choice of law rules) will apply. No equitable or injunctive relief, and no shifting of legal fees or costs, may be sought against the Federal Government Licensee except as, and then only to the extent, specifically authorized by applicable federal statute.

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- b. Indemnification: Any provisions in this Agreement requiring any Federal Government Licensee to indemnify any party are hereby deleted and shall not apply. Any provisions requiring the licensor to indemnify the Federal Government Licensee shall be revised to state that such indemnification, and the conduct and/or settlement of any applicable proceedings, shall be subject to 28 USC 516.
- c. Changes in templates: This Agreement shall apply in the version attached hereto. Subsequent updates to or changes in the licensor's standard commercial templates for such agreements shall not be binding on the Federal Government Licensee, except by prior express written agreement of both parties.
- d. Fees, taxes and payment: If the Software is licensed as part of a separate Government contract between the Federal Government Licensee and a prime contractor, the provisions of such contract regarding fees, taxes and payment shall supersede any provisions of this Agreement regarding same. Notwithstanding the foregoing: (a) express written agreement of the Federal Government Licensee shall be required prior to (i) any extension or renewal of this Agreement or the associated fees or (ii) any change in the fees; (b) late payments shall be governed by the Prompt Payment Act and the regulations at 5 CFR 1315; and (c) no cost of collection on delinquent invoices may be sought against the Federal Government Licensee except as, and then only to the extent, specifically authorized by applicable federal statute.
- e. Assignment: Licensor may not assign this Agreement or its rights or obligations there under, in whole or in part, except in accordance with the procedures set forth in FAR subparts 32.8 and/or 42.12, as applicable.
- f. No waiver of liability or cause of action: Any provision requiring the Federal Government Licensee to agree to waive or otherwise not to pursue any claim against the licensor it may otherwise have is hereby deleted. Without limiting the generality of the foregoing, the parties agree that nothing in this Agreement, including but not limited to the limitation of liability clauses, in any way grants the licensor a waiver from, release of, or limitation of liability pertaining to, any past, current or future violation of federal law and that no clause restricting users' statements shall be read to restrict the Federal Government Licensee's ability to pursue any course of action otherwise permitted by federal law, regulation, or policy, including without limitation making public statements in connection with any suspension or debarment action.
- g. Audit: Any clauses in this Agreement allowing for an audit of the Federal Government Licensee's records or information systems, or verification of its compliance with this Agreement generally, shall be subject to the Federal Government Licensee's requirements pertaining to security matters, including without limitation clearances to be held and non-disclosure agreements to be executed by auditors, badging or escorting requirements for access to premises, and other applicable requirements. Any over-use identified in an audit shall be referred to the prime contractor or the Federal Government Licensee's CO (as applicable) for action. No audit costs may be sought against the Federal Government Licensee except as, and then only to the extent, specifically authorized by applicable federal statute.
- h. Compliance with laws: The parties acknowledge that the United States, as a sovereign, is subject to the laws of the United States. Nothing in this Agreement shall be interpreted to imply consent by any Federal Government Licensee to submit to the adjudicative or enforcement power of any regulatory, administrative, or judicial authority of, or the

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application of the laws of, another jurisdiction. Any provision inconsistent with applicable federal law that is not listed above is hereby deemed omitted from this Agreement to the extent of such inconsistency.

- i. Third party terms: Any third party licensing terms associated with third-party software components or products embedded in or otherwise provided with the Software shall be deemed amended in accordance with sections 1-8 above.

### **H.26 SECTION 508 COMPLIANCE REQUIREMENTS**

Unless the Government invokes an exemption, all Electronic and Information Technology (EIT) products and services proposed shall fully comply with Section 508 of the Rehabilitation Act of 1973, per the 1998 Amendments, 29 U.S.C. 794d, and the Architectural and Transportation Barriers Compliance Board's Electronic and Information Technology Accessibility Standards at 36 CFR 1194. The contractor shall identify all EIT products and services proposed, identify the technical standards applicable to all products and services proposed and state the degree of compliance with the applicable standards. Additionally, the contractor must clearly indicate where the information pertaining to Section 508 compliance can be found (e.g., Vendor's or other exact web page location). The contractor must ensure that the list is easily accessible by typical users beginning at TOA.

### **H.27 INTELLECTUAL PROPERTY**

The existence of any patent, patent application, or other intellectual property right that encumbers any deliverable must be disclosed in writing on the cover letter that accompanies the delivery. If no such disclosures are provided, the data rights provisions in FAR 52.227-17 apply. The Software Agreements referenced in Section H.25, amended as contemplated therein, shall be deemed to constitute such disclosure with regard to their associated commercial software tools and shall prevail over any inconsistent provision in FAR 52.227-17 to the extent of such inconsistency.

### **H.28 ADEQUATE ACCOUNTING SYSTEM**

The adequacy of the contractor's accounting system and its associated internal control system, as well as contractor compliance with the Cost Accounting Standards (CAS), affect the quality and validity of the contractor data upon which the Government must rely for its management oversight of the contractor and TO performance. The contractor's cost accounting system shall be adequate during the entire PoP and shall permit timely development of all necessary cost data in the form required by the TO.

### **H.29 INTERNATIONAL TRAFFIC IN ARMS REGULATIONS**

To the extent that the contractor will be taking technical data or other information designed or developed for military or intelligence application outside the United States or disclosing such data to a foreign person or performing defense services on behalf of a foreign person, the contractor shall be responsible for compliance with the requirements of the Arms Export Control Act, 22 USC 2778-2780, the International Traffic in Arms Regulations (ITAR), 22 CFR Parts

## SECTION H – SPECIAL CONTRACT REQUIREMENTS

120-130, and the DFARS 227.675-1, including registering and licensing as directed by the Department of State Directorate of Defense Trade Controls.

## SECTION I – CONTRACT CLAUSES

NOTE: The Section numbers in this TO correspond to the Section numbers in the OASIS UNRESTRICTED Contract (POOL 1).

### **I.1 TASK ORDER CLAUSES**

FAR Part 12 commercial clauses do not apply to this TO. This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text.

Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this address: <http://acquisition.gov/>

All provisions will be removed at TOA.

<b>Clause No</b>	<b>Clause Title</b>	<b>Date</b>
52.202-1	Definitions.	(Nov 2013)
52.203-3	Gratuities.	(Apr 1984)
52.203-5	Covenant Against Contingent Fees.	(May 2014)
52.203-6	Restrictions on Subcontractor Sales to the Government.	(Sep 2006)
52.203-7	Anti-Kickback Procedures.	(May 2014)
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity.	(May 2014)
52.203-10	Price or Fee Adjustment for Illegal or Improper Activity.	(May 2014)
52.203-11 (Provision)	Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions.	(Sep 2007)
52.203-12	Limitation on Payments to Influence Certain Federal Transactions.	(Oct 2010)
52.203-13	Contractor Code of Business Ethics and Conduct.	(Apr 2010)
52.203-15	Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009.	(Jun 2010)
52.204-2	Security Requirements.	(Aug 1996)
52.204-4	Printed or Copied Double-Sided on Recycled Paper.	(May 2011)
52.204-9	Personal Identity Verification of Contractor Personnel.	(Jan 2011)
52.204-10	Reporting Subcontract Awards.	(Jul 2013)

## SECTION I – CONTRACT CLAUSES

52.209-5 (Provision)	Certification Regarding Responsibility Matters.	(Apr 2010)
52.209-6	Protecting the Government’s Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment.	(Aug 2013)
52.211-14 (Provision)	Notice of Priority Rating for National Defense, Emergency Preparedness, and Energy Program Use.	(Apr 2008)
52.211-15	Defense Priority and Allocation Requirements.	(Apr 2008)
52.214-34 (Provision)	Submission of Offers in the English Language.	(Apr 1991)
52.215-8	Order of Precedence—Uniform Contract Format.	(Oct 1997)
52.215-11	Price Reduction for Defective Cost or Pricing Data—Modifications.	(Aug 2011)
52.215-12	Subcontractor Cost or Pricing Data.	(Oct 2010)
52.215-13	Subcontractor Cost or Pricing Data—Modifications.	(Oct 2010)
52.215-16 (Provision)	Facilities Capital Cost of Money.	(Jun 2003)
52.215-17	Waiver of Facilities Capital Cost of Money.	(Oct 1997)
52.216-8	Fixed Fee.	(Jun 2011)
52.216-24	Limitation of Government Liability. (See Note 1.).	(Apr 1984)
52.219-14	Limitations on Subcontracting. (See Note 2.).	(Nov 2011)
52.222-1	Notice to the Government of Labor Disputes.	(Feb 1997)
52.222-3	Convict Labor.	(Jun 2003)
52.222-41	Service Contract Act of 1965. (See Section J, Attachment AI)	(May 2014)
52.222-49	Service Contract Act—Place of Performance Unknown.	(May 2014)
52.222-52 (Provision)	Exemption from Application of the Service Contract Act to Contracts for Certain Services—Certification.	(May 2014)
52.223-6	Drug-Free Workplace.	(May 2001)
52.227-14	Rights in Data – General.	(Dec 2007)

## SECTION I – CONTRACT CLAUSES

52.227-15	Representation of Limited Rights Data and Restricted Computer Software.	(Dec 2007)
52.227-17	Rights in Data—Special Works.	(Dec 2007)
52.227-18	Rights in Data—Existing Works.	(Dec 2007)
52.228-3	Workers’ Compensation Insurance (Defense Base Act)	(Apr 1984)
52.232-18	Availability of Funds.	(Apr 1984)
52.232-20	Limitation of Cost.	(Apr 1984)
52.232-22	Limitation of Funds.	(Apr 1984)
52.232-25	Prompt Payment.	(Jul 2013)
52.233-1	Disputes.	(May 2014)
52.233-2 (Provision)	Service of Protest.	(Sep 2006)
52.233-4	Applicable Law for Breach of Contract Claim.	(Oct 2004)
52.242-4	Certification of Final Indirect Costs.	(Jan 1997)
52.242-13	Bankruptcy.	(Jul 1995)
52.242-15	Stop-Work Order.	(Aug 1989)
52.243-2	Changes—Cost Reimbursement.	(Aug 1987)
52.244-2	Subcontracts. (See Note 1).	(Oct 2010)
52.244-5	Competition in Subcontracting.	(Dec 1996)
52.244-6	Subcontracts for Commercial Items.	(Oct 2014)
52.245-1	Government Property.	(Apr 2012)
52.246-5	Inspection of Services—Cost-Reimbursement.	(Apr 1984)
52.246-25	Limitation of Liability—Services.	(Feb 1997)
52.247-34	F.O.B. Destination.	(Nov 1991)
52.249-6	Termination (Cost-Reimbursement).	(May 2004)
52.249-14	Excusable Delays.	(Apr 1984)



## SECTION I – CONTRACT CLAUSES

52.251-1	Government Supply Sources.	(Apr 2012)
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### FAR 52.217-8 Option to Extend Services (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within 30 days.

### FAR 52.217-9 Option to Extend the Term of the Contract (MAR 2000)

- (a) The Government may extend the term of this contract by written notice to the Contractor within 30 days provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 60 days before the contract expires. The preliminary notice does not commit the Government to an extension.
- (b) If the Government exercises this option, the extended contract shall be considered to include this option clause.
- (c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 10 years.

### **I.1.1 DEFENSE FEDERAL ACQUISITION REGULATION SUPPLEMENTS (DFARS) CLAUSES INCORPORATED BY REFERENCE**

The full text of a provision may be accessed electronically at:

Defense Procurement website: [www.acq.osd.mil/dpap/dars/dfarspgi/current/index.html](http://www.acq.osd.mil/dpap/dars/dfarspgi/current/index.html)

Clause No	Clause Title	Date
252.201-7000	Contracting Officer's Representative.	(Dec 1991)
252.203-7000	Requirements Relating to Compensation of Former DoD Officials.	(Sep 2011)
252.203-7002	Requirement to Inform Employees of Whistleblower Rights.	(Sep 2013)
252.203-7003	Agency Office of the Inspector General.	(Dec 2012)
252.204-7000	Disclosure Of Information.	(Aug 2013)

## SECTION I – CONTRACT CLAUSES

252.204-7003	Control Of Government Personnel Work Product.	(Apr 1992)
252.204-7005	Oral Attestation of Security Responsibilities.	(Nov 2001)
252.204-7012	Safeguarding of Unclassified Controlled Technical Information.	(Nov 2013)
252.205-7000	Provision Of Information To Cooperative Agreement Holders.	(Dec 1991)
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Terrorist Country.	(Mar 2014)
252.209-7998	Representation Regarding Conviction of a Felony Criminal Violation under any Federal or State Law.	(Mar 2012)
252.209-7999	Representation by Corporations Regarding an Unpaid Delinquent Tax Liability or a Felony Conviction under any Federal Law.	(Jan 2012)
252.211-7003	Item Identification and Valuation.	(Dec 2013)
252.211-7007	Reporting of Government-Furnished Property.	(Aug 2012)
252.222-7006	Restrictions on the Use of Mandatory Arbitration Agreements.	(Dec 2010)
252.223-7004	Drug Free Work Force.	(Sep 1988)
252.227-7013	Rights in Technical Data - Noncommercial Items.	(Feb 2014)
252.227-7014	Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation.	(Feb 2014)
252.227-7015	Technical Data-Commercial Items	(Feb 2014)
252.227-7016	Rights in Bid or Proposal Information.	(Jan 2011)
252.227-7019	Validation of Asserted Restrictions - Computer Software.	(Sep 2011)

## SECTION I – CONTRACT CLAUSES

252.227-7000	Rights in Special Works.	(Jun 1995)
252.227-7028	Technical Data or Computer Software Previously Delivered to the Government.	(Jun 1995)
252.232-7006	Wide Area WorkFlow Payment Instructions.	(May 2013)
252.232-7007	Limitation of Government's Obligation	(May 2006)
252.243-7002	Requests for Equitable Adjustment.	(Dec 2012)
252.245-7001	Tagging, Labeling, and Marking of Government-Furnished Property.	(Apr 2012)
252.245-7002	Reporting Loss of Government Property.	(Apr 2012)
252.245-7003	Contractor Property Management System Administration.	(Apr 2012)
252.245-7004	Reporting, Reutilization, and Disposal.	(May 2013)
252.246-7001	Warranty of Data-Basic.	(Mar 2014)
227.675-1	International Traffic in Arms Regulations.	(1954)

### DFARS 252.232-7007 Limitation of Government's Obligation

(a) Contract line item(s) *[Contracting Officer insert after negotiations]* is/are incrementally funded. For this/these item(s), the sum of \$ *[Contracting Officer insert after negotiations]* of the total price is presently available for payment and allotted to this contract. An allotment schedule is set forth in paragraph (j) of this clause.

(b) For item(s) identified in paragraph (a) of this clause, the Contractor agrees to perform up to the point at which the total amount payable by the Government, including reimbursement in the event of termination of those item(s) for the Government's convenience, approximates the total amount currently allotted to the contract. The Contractor is not authorized to continue work on those item(s) beyond that point. The Government will not be obligated in any event to reimburse the Contractor in excess of the amount allotted to the contract for those item(s) regardless of anything to the contrary in the clause entitled "Termination for Convenience of the Government." As used in this clause, the total amount payable by the Government in the event of

## SECTION I – CONTRACT CLAUSES

termination of applicable contract line item(s) for convenience includes costs, profit, and estimated termination settlement costs for those item(s).

(c) Notwithstanding the dates specified in the allotment schedule in paragraph (j) of this clause, the Contractor will notify the Contracting Officer in writing at least ninety days prior to the date when, in the Contractor's best judgment, the work will reach the point at which the total amount payable by the Government, including any cost for termination for convenience, will approximate 85 percent of the total amount then allotted to the contract for performance of the applicable item(s). The notification will state (1) the estimated date when that point will be reached and (2) an estimate of additional funding, if any, needed to continue performance of applicable line items up to the next scheduled date for allotment of funds identified in paragraph (j) of this clause, or to a mutually agreed upon substitute date. The notification will also advise the Contracting Officer of the estimated amount of additional funds that will be required for the timely performance of the item(s) funded pursuant to this clause, for a subsequent period as may be specified in the allotment schedule in paragraph (j) of this clause or otherwise agreed to by the parties. If after such notification additional funds are not allotted by the date identified in the Contractor's notification, or by an agreed substitute date, the Contracting Officer will terminate any item(s) for which additional funds have not been allotted, pursuant to the clause of this contract entitled "Termination for Convenience of the Government."

(d) When additional funds are allotted for continued performance of the contract line item(s) identified in paragraph (a) of this clause, the parties will agree as to the period of contract performance which will be covered by the funds. The provisions of paragraphs (b) through (d) of this clause will apply in like manner to the additional allotted funds and agreed substitute date, and the contract will be modified accordingly.

(e) If, solely by reason of failure of the Government to allot additional funds, by the dates indicated below, in amounts sufficient for timely performance of the contract line item(s) identified in paragraph (a) of this clause, the Contractor incurs additional costs or is delayed in the performance of the work under this contract and if additional funds are allotted, an equitable adjustment will be made in the price or prices (including appropriate target, billing, and ceiling prices where applicable) of the item(s), or in the time of delivery, or both. Failure to agree to any such equitable adjustment hereunder will be a dispute concerning a question of fact within the meaning of the clause entitled "Disputes."

(f) The Government may at any time prior to termination allot additional funds for the performance of the contract line item(s) identified in paragraph (a) of this clause.

(g) The termination provisions of this clause do not limit the rights of the Government under the clause entitled "Default." The provisions of this clause are limited to the work and allotment of funds for the contract line item(s) set forth in paragraph (a) of this clause. This clause no longer applies once the contract is fully funded except with regard to the rights or obligations of the parties concerning equitable adjustments negotiated under paragraphs (d) and (e) of this clause.

(h) Nothing in this clause affects the right of the Government to terminate this contract pursuant to the clause of this contract entitled "Termination for Convenience of the Government."

(i) Nothing in this clause shall be construed as authorization of voluntary services whose acceptance is otherwise prohibited under 31 U.S.C. 1342.

(j) The parties contemplate that the Government will allot funds to this contract in accordance with the following schedule:

## SECTION I – CONTRACT CLAUSES

<ul style="list-style-type: none"><li>• On execution of contract</li><li>• \$ __As indicated in Section B of this Task Order document_____</li></ul>	
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### **I.1.2 AIR FORCE ACQUISITION REGULATION SUPPLEMENTS (AFARS) CLAUSES**

5352.242-9001	Common Access Cards (CACs)	(Aug 2004)
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## SECTION J – LIST OF ATTACHMENTS

### **J.3 LIST OF ATTACHMENTS**

**The information provided in Section J is for reference only. The documents in Section J are not intended to change the TOR and any conflict therein should be resolved by referring and relying upon the TOR. Because the Section J reference materials may be outdated or contain information that has not been recently verified for accuracy, the Government does not warrant the accuracy of the information for purposes of this TOR.**

<b>Attachment</b>	<b>Title</b>
A	Acronym List
B	Incremental Funding Chart
C	REMOVED
D	Monthly Status Report (MSR)
E	Trip Report
F	Problem Notification Report (PNR)
G	Historical List of Material & Equipment
H	Historical Exercise/Event Planning Support Data
I	REMOVED
J	Current TIF System Description
K	REMOVED
L	Deliverable Acceptance-Rejection Report
M	FEDSIM COR Appointment Letter
N	Invoice Workbook
O	Department of Defense (DD) 254
P	Korea SOFA Guide
Q	Corporate Non-Disclosure Agreement
R	Addendum to Corporate Non-Disclosure Agreement
S	Request to Initiate Purchase Template
T	Consent to Purchase Template
U	Request for Service (RFS) Template (Example)

SECTION J – LIST OF ATTACHMENTS

V	REMOVED
W	REMOVED
X	REMOVED
Y	REMOVED
Z	REMOVED
AA	REMOVED
AB	Information Technology (IT), Information Assurance (IA) and Cybersecurity Instruction and Regulations
AC	DoD Directive 8570 – Information Assurance Training, Certification, and Workforce Management
AD	Defense Information Systems Agency (DISA) Defense Information System Network (DISN) Video Services (DVS) Performance Evaluation and Certification Program
AE	Section C Work Breakdown Structure (WBS) of Tasks/Subtasks
AF	OASIS Labor Categories and Bureau of Labor Statistics Service Occupational Classifications
AG	REMOVED
AH	REMOVED
AI	Register of Wage Determination Under the Service Contract Act (May 2014) – Orlando, Florida

## SECTION J – LIST OF ATTACHMENTS

### Attachment A

#### Acronym List



AF00685\_13051AFM  
\_Attachment\_A\_Acro



SECTION J – LIST OF ATTACHMENTS

Attachment B

Incremental Funding Chart

**[Separate Attachment]**

## SECTION J – LIST OF ATTACHMENTS

## SECTION J – LIST OF ATTACHMENTS

### Attachment D

#### Monthly Status Report (MSR)



AF00685\_13051AFM  
\_Attachment\_D\_MON

## SECTION J – LIST OF ATTACHMENTS

### Attachment E

#### Trip Report



AF00685\_13051AFM  
\_Attachment\_E\_TRIP

## SECTION J – LIST OF ATTACHMENTS

### Attachment F

#### Problem Notification Report (PNR)



AF00685\_13051AFM  
\_Attachment\_F\_PROI

## SECTION J – LIST OF ATTACHMENTS

### Attachment G

#### Historical List of Material & Equipment



AF00685\_13051AFM  
\_Attachment\_G\_AFAI

## SECTION J – LIST OF ATTACHMENTS

### Attachment H

Historical Exercise/Event Planning Support Data



AF00685\_13051AFM  
\_Attachment\_H\_Histc

## SECTION J – LIST OF ATTACHMENTS

### Attachment I

AFAMS Historical Level of Effort (LOE) (Optional Tasks)  
(REMOVED)



## SECTION J – LIST OF ATTACHMENTS

### Attachment J

Current TIF System Description



AF00685\_13051AFM  
\_Attachment\_J\_Curre

## SECTION J – LIST OF ATTACHMENTS

### Attachment K

Removed



AF00685\_13051AFM  
\_Attachment\_K\_AFAI



AF00685\_13051AFM  
\_Attachment\_K\_AFAI

## SECTION J – LIST OF ATTACHMENTS

### Attachment L

#### Deliverable Acceptance-Rejection Report



AF00685\_13051AFM  
\_Attachment\_L\_DELT

## SECTION J – LIST OF ATTACHMENTS

### Attachment M

#### FEDSIM COR Appointment Letter



Jessica\_Cassidy\_COR  
Letter of Appointment.



Lacresha\_Fikes\_ACO  
R Letter of Appointment.

## SECTION J – LIST OF ATTACHMENTS

### Attachment N

Invoice Notebook



AF00685\_13051AFM  
\_Attachment\_N\_INV

SECTION J – LIST OF ATTACHMENTS

Attachment O

Department of Defense (DD) 254

**[Separate Attachment]**

## SECTION J – LIST OF ATTACHMENTS

### Attachment P

Korea SOFA Guide



AF00685\_13051AFM  
\_Attachment\_P\_KOR

## SECTION J – LIST OF ATTACHMENTS

### Attachment Q

#### Corporate Non-Disclosure Agreement



AF00685\_13051AFM  
\_Attachment\_Q\_COR



## SECTION J – LIST OF ATTACHMENTS

### Attachment R

Addendum to Corporate Non-Disclosure Agreement



AF00685\_13051AFM  
\_Attachment\_R\_COR

## SECTION J – LIST OF ATTACHMENTS

### Attachment S

#### Request to Initiate Purchase Template



AF00685\_13051AFM  
\_Attachment\_S\_REQI

## SECTION J – LIST OF ATTACHMENTS

### Attachment T

Consent to Purchase Template



AF00685\_13051AFM  
\_Attachment\_T\_CON

## SECTION J – LIST OF ATTACHMENTS

### Attachment U

Request for Service (RFS) Template (Example)



AF00685\_13051AFM  
\_Attachment\_U\_Requ

SECTION J – LIST OF ATTACHMENTS

Attachment V

Offeror Q&A Template  
(REMOVED)

SECTION J – LIST OF ATTACHMENTS

Attachment W

Cost/Price Worksheet (2 Attachments)  
(REMOVED)

SECTION J – LIST OF ATTACHMENTS

Attachment X

Key Personnel Qualification Matrix  
(REMOVED)

SECTION J – LIST OF ATTACHMENTS

Attachment Y

Project Staffing Plan Template  
(REMOVED)



SECTION J – LIST OF ATTACHMENTS

Attachment Z

Corporate Experience Template  
(REMOVED)

SECTION J – LIST OF ATTACHMENTS

Attachment AA

Quality Assurance Surveillance Plan (QASP)  
(REMOVED)

## SECTION J – LIST OF ATTACHMENTS

### Attachment AB

Information Technology (IT), Information Assurance (IA) and Cybersecurity Instruction and Regulations



AF00685\_13051AFM  
\_Attachment\_AB\_IT\_

## SECTION J – LIST OF ATTACHMENTS

### Attachment AC

DoD Directive 8570 – Information Assurance Training, Certification, and Workforce Management



AF00685\_13051AFM  
\_Attachment\_AC\_DoI

## SECTION J – LIST OF ATTACHMENTS

### Attachment AD

Defense Information Systems Agency (DISA) Defense Information System Network (DISN)  
Video Services (DVS) Performance Evaluation and Certification Program



AF00685\_13051AFM  
\_Attachment\_AD\_DIS

## SECTION J – LIST OF ATTACHMENTS

### Attachment AE

Section C Work Breakdown Structure (WBS) of Tasks/Subtasks



AF00685\_13051AFM  
\_Attachment\_AE\_Sec

## SECTION J – LIST OF ATTACHMENTS

### Attachment AF

OASIS Labor Categories and Bureau of Labor Statistics Service Occupational Classifications



AF00685\_13051AFM  
\_Attachment\_AF\_OA

## SECTION J – LIST OF ATTACHMENTS

### Attachment AG

List of Existing Air, Space, and Cyber Constructive Environment (ASCCE) Models  
REMOVED



AF00685\_13051AFM  
\_Attachment\_AG\_Ext



SECTION J – LIST OF ATTACHMENTS

Attachment AH

Model Program Management Review (PMR) -- Representative Agenda

REMOVED

## SECTION J – LIST OF ATTACHMENTS

### Attachment AI

Register of Wage Determination Under the Service Contract Act (May 2014) – Orlando, Florida



AF00685\_13051AFM  
\_Attachment\_AI\_Wa

SECTION K – REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF  
OFFERORS OR RESPONDENTS

NOTE: The Section numbers in this TO correspond to the Section numbers in the OASIS UNRESTRICTED Contract (POOL 1).



CLIN	CLIN TYPE	COST OVERRUN CEILING	ESTIMATED COST	ESTIMATED FIXED FEE	ESTIMATED AWARD FEE	TOTAL ESTIMATED	FUNDED COST	FUNDED FIXED FEE	FUNDED AWARD FEE	TOTAL FUNDED
0001	FFP LABOR	(b) (4)								
0002	FFP LABOR									
0003	CPFF LABOR									
0004	CPFF LABOR									
0005	TRAVEL									
	EQUIPMENT AND									
0006	MATERIALS									
0007	CAF									
SUB										
1001	CPFF LABOR									
1002	CPFF LABOR									
1003	TRAVEL									
	EQUIPMENT AND									
1004	MATERIALS									
1005	CAF									
1006	ODCs									
SUB										
2001	CPFF LABOR									
2002	CPFF LABOR									
2003	TRAVEL									
	EQUIPMENT AND									
2004	MATERIALS									
2005	CAF									
2006	ODCs									
SUB										
3001	CPFF LABOR									
3002	CPFF LABOR									
3003	TRAVEL									
	EQUIPMENT AND									
3004	MATERIALS									
3005	CAF									
3006	ODCs									
SUB										
4001	CPFF LABOR									
4002	CPFF LABOR									
4003	TRAVEL									
	EQUIPMENT AND									
4004	MATERIALS									
4005	CAF									
4006	ODCs									
SUB										
TOTAL		\$ -	(b) (4)						\$ -	\$ 78,200,538.73